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14758.748 Million cell updates/sec
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Copyright (c) 1993 - 2002 Compugen Ltd.
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Pred. No. İS the number of results predicted by chance to have

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## Result No. o o 303 236.4 206.4 206.4 203 178 177.6 158.4 135.2 134.8 1214 816.2 815.2 815.2 811.8 660 541.8 362 362 362 348.8 345.2 347.4 337.4 Score Query Match 39 .7 102468 106584 140973 4445 852 1995 17977 143717 143717 167399 1216 1703 1703 1726 2500 2605 161804 167399 Length 1661 1601 368 2426 3175 1405 1416 , , , , , , , , , , , , , , , , DΒ AF174603 BC032802 BC019991 AC103212 AX072723 AX072711 AC009984 AC013997 AC008140 AC009219 BC002920 BC025568 D BC024611 D BC024611 D BC026574 AC055330 AC021028 AX420468 AX420466 DEC010405 DEC010405 AF06538 AF06538 AX061778 AX061778 AX061778 AX061778 AX024427 AX024485 AC103212 AF274013 AF9274013 AF9276210 BC003157 AX9603150 BC003157 AX9603161 AX976210 SUMMARIES AX44 0923 Sequence AX136638 Homo sapi AF311903 Homo sapi BC002920 Homo sapi BC0025568 Mus muscu BC026574 Mus muscu BC026574 Mus muscu BC026574 Mus muscu BC021028 Homo sapi AX420468 Sequence BC010405 Homo sapi AX420468 Sequence BC010405 Homo sapi AF121344 Mus muscu BC010405 Homo sapi AF053455 Homo sapi BC009704 Homo sapi BC009704 Homo sapi BC004707 Homo sapi BC004707 Sequence AX061778 Sequence AX079573 Sequence AX079573 Sequence AX079573 Requence AX079573 Requence AX079573 Requence AX079573 Dequence AX079573 Sequence BC024685 Mus muscu AC123389 Rattus no AC123389 Rattus no AC123389 Rattus no AC123389 Rattus no AC103317 Homo sapi BC004161 Homo sapi BC004161 Homo sapi BC004161 Homo sapi BC003872 Mus muscu AF134603 Homo sapi BC013971 Mus muscu AC103212 Rattus no AF174603 Homo sapi BC013972 Mus muscu AC103212 Rattus no AX072713 Sequence BC003972 Mus muscu AC103212 Rattus no AX072773 Sequence AX072771 Sequence AX072771 Sequence AX072771 Drosophil AC0109119 Drosophil AC009119 Drosophil AC009119 Drosophil AC009119 Drosophil AC009119 Drosophil Description

## ALIGNMENTS

AUTHORS TITLE JOURNAL	REFERENCE	ORGANISM	KEYWORDS	VERSION	ACCESSION	DEFINITION	LOCUS	RESULT 1 AX440923
Reinhard, C.J. and Garcia, P.D. Tetraspan protein and uses thereof Patent: WO 0206340-A 1 24-JAN-2002;	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	Homo sapiens		AX440923.1 GI:21665563	AX440923		AX440923 1388 bp DNA linear PAT 28-JUN-2002	

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                                                                                                                                                                      This clone (DKFZD564B1037) is available at the RZPD in Berlin. Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de Further
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                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                            information about the clone and
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Location/Qualifiers
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/clone="DKF2p564B1037"
/tissue_type="brain"
/clone_lib="564 (synonym: hfbr2).
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/dev_stage="fetal"
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/db_xref="taxon:9606"
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REFERENCE AUTHORS TITLE JOURNAL REFERENCE AUTHORS TITLE JOURNAL KEYWORDS SOURCE ORGANISM FEATURES source Submitted (06-OCT-2000) Department of Immunology, Second Medical University & Shanghai Brilliance Biotechnology Ir 800 Xiangyin Rd., Shanghai 200433, P.R.China Unpublished 2 (bases 1 1 (bases 1 to 2553)
Zhang, W., Li, N., Wan, T.
Identification of novel 2 (bases 1 to 2553) Zhang, W., Li, N., Wan, T. Eukaryota; Metazoa; Mammalia; Eutheria; Homo sapiens Direct Submission /db\_xref="taxon: 73. .885 /product="DC-TM4F2 precursor" /protein\_id="AAM94899.1" /codon\_start=1 /organism="Homo Location/Qualifiers Chordata; Primates; and Cao,X. and Cao, sapiens" 1:9606" Craniata; Vertebrata; Catarrhini; Hominidae; Euteleostomi;

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/translation="MHYYRYSNAKVSCWYKYLLFSYNIIFWLAGVVFLGVGLWAWSEK
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FLEILAVAYLAFLEGOBWYRDFFREFFESNIKSYRDDIDLQNLIDSLQKANQCCGAYGPE
DWDLNVFWCSGASYSREKCGVVPFSCCVPDPAGVVVMTQCGYDVRIQLKSKWDESIFT
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                                      Web site: http://www.nisc.nih.gov/
Contact: nisc_mgc@nhgri.nih.gov
Shevchenko,Y., Wetherby,K.D., Beckstrom-Sternberg,S.M.,
Benjamin,B., Blakesley,R.W., Bouffard,G.G., Brinkley,C., Brooks,S.,
Dietrich,N.L., Guan,X., Gupta,J., Ho,S.-L., Karlins,E., Legaspi,R.,
Lim,M., Maduro,Q.L., Masiello,C., Mastrian,S.D., McCloskey,J.C.,
McDowell,J., Pearson,R., Snyder,B., Stantripop,S., Thomas,P.J.,
Tiongson,E.E., Touchman,J.W., Tsurgeon,C., Vogt,J.L., Walker,M.A.,
Zhang,L.-H. and Green,E.D.
                                                                                                                                                                                  cDNA Library Preparation: Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Cor DNA Sequencing by: National Institutes of F Sequencing Center (NISC), Gaithersburg, Maryland;
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Homo sapiens, Similar to transmembrane 4 superfamily
clone MGC:11352 IMAGE:3954042, mRNA, complete cds.
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1 (bases 1 to 2502)
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Contact: MGC help desk
Email: ggapbs-r@mail.nlh.gov
Tissue Procurement: ATCC/DCTD/DTP
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This clone was selected for full length sequencing because passed the following selection criteria: Haxamer frequency analysis, Similarity but not identity to protein.

Location/Qualifiers
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/tissue_type="Skin, melanotic me
/clone_lib="NHH_MGC_20"
/lab_host="DH10B-R"
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         NIH-MGC Project URL:
Contact: MGC help des
                                         Submitted (06-MAR-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                 Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia; 1 (bases 1 to 2428)
  Email:
                                                                                                                                    Mus musculus
                                                                                                                                                          MGC
                                                                                                                                                                  BC025568
BC025568.1
                                                                                                                                                                                                             Mus musculus,
                                                                            Direct Submission
                                                                                        Strausberg, R.
                                                                                                                                             nouse mouse
cgapbs-remail.nih.gov
                                                                                                                                                                                                  slingshot,
                                                                                                                                                                                               2428 bp mRNA linear ROD 07-AUG-2002
Similar to region containing hypothetical protein
ngshot, clone MGC:36595 IMAGE:5322531, mRNA, complete
               desk
                    http://mgc.nci.nih
                                                                                                          Craniata; Vertebrata;
Sciurognathi; Muridae;
                                                                                                             Muridae;
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                                                                                                                      Euteleostomi;
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Best Local Similarity
Matches 1017; Conserv
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TGCGTGGGGGCTCTGCGGAGAATATCTGCTTGCTCAACTTTTTCTGTGGCACCATCGTG
                                                   GACCCCGTCGTGCTGGTCTTGATGGTGGGCGTGGTGATGTTCACACTGGGATTCGCAGGC
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cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: National Institutes of Health Intramural
Sequencing Center (NISC),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Clone distribution: MGC clone distribution information can through the I.M.A.G.E. Consortium/LLML at: http://image.lln Serles: IRAK Plate: 56 Row: j Column: 21 This clone was selected for full length sequencing because
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: nisc_mgc@nhgri.nih.gov
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tissue Procurement: Jeffrey Green M.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         passed the following selection criteria: GenomeScan
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /codon_start=1
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/product="Siniflar to region containing hypothetical
protein MGC11352; slingshot"
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DWDLNYYFNCSGASYSREKCGVPFSCCYPDPAQKYVNTOCGYDVRIQLKSKWEFIFT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KGCIQALEGWLPRNIYIVAGVEIAISLLQIFGIFLARTLISDIEAVKAGHHF"
640 c 624 g 647 t
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/db_xref="taxon:10090"
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ACCESSION VERSION KEYWORDS

BC024611 BC024611. MGC.

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DEFINITION

BC024611 Mus musculus, MGC11352; slin

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2498 bp mRNA linear ROD 07-AUG-2002
Similar to region containing hypothetical protein
ngshot, clone MGC:28503 IMAGE:4188261, mRNA, complete
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                                                                                                                                                                                       GAAAAGGGTGTGCCGACCTCACCAAAGTGACCCGGATGCATGGAATCGACCCTGTG
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NIH-MGC Project URL: http://mgc.nci.nih.gov

Contact: MGC help desk

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: Jeffrey E. Green, M.D.

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Baylor College of Medicine Human Genome
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Eukaryota; Metazoa;
Mammalia; Eutheria;
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This clone was selected for full length sequencing because it passed the following selection criteria: GenomeScan gene prediction, Similarity but not identity to protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: amg@bcm.tmc.edu
Gunaratne, P.H., Garcia, A.M., Lu,
Yoon, V.S., Kowis, C.R., Lawrence,
Richards, S., Gibbs, R.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Center code: BCM-HGSC
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DWDLNVYFNCSGASYSREKCGVPPSCCVPDPAQKVVNTQCGYDVRIQLKSKWDEFIFT
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/db_xref="G1:19354054"
/translation="MHYYRYSNAEVSCWYKYLLESYNIVFWLAGVVFLGVGLWAWSEK
/translation="MHYYRYSNAEVSCWYKYLLESYNIVFWLAGVVFLGVGLWAWSEK
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/tissue_type="Salivary gland, 10
/clone_lib="NCI_CGAP_SG2"
/lab_host="DH10B"
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/db_xref="taxon:10090"
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TITLE
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                                                      TAGATACTCTAACGCCAAAGTCAGCTGCTGCTGCAAGTACCATCCTTTTCAGCTACAACAT 137
                                                                                                                   GGCCGCGCGCCGCCGCCGCCGCGCGCGCGTTCTCTCAGAAGATGCACTATTA
 CATCTTCTGGTTGGCTGGAGTTGTCTTCCTTGGAGTCGGGCTGTGGGCCATGGAGCGAAAA
                                 TAGATACTCGAACGCCGAGGTCAGCTGCTGCTACAAGTACCTGCTCTTCAGCTACAATAT
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This clone was selected for full length sequencing because passed the following selection criteria: GenomeScan gene prediction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consorthum (LINL) DNA Sequencing by: Sequencing Group at the Stanford Human Center, Stanford University School of Medicine, Stanford, edu web site: http://www-shgc.stanford.edu Contect: (Dickson, Mark) mod@paxil.stanford.edu Dickson, M., Schmutz, J., Grimwood, J., Rodriquez, A., and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NIH-MGC Project URL: http://mgc.nci.ni
Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Jeffrey Green M.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted (02-APR-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
1 (bases 1 to 2500)
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R. M.
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                                                                                                                                                                                                                                                   545
                                                                                                                                                                 58.5%; ilarity 83.5%; Conservative
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                                                                                                                                                                                                                                            /product="Unknown (protein for MGC:36554)"

protein_id="AAH36574 1"

/db_xref="G1:20072353"

/db_xref="G1:20072353"

/db_xref="MHYYRYSNAEVSGWYKYLLFSYNIVFWLAGVVFLGVGLWAWSEK
GVLSDLTKVTRLHGIDPVLVLMVGVVMFTLGFAGCVGALRENICLLKFFCGAIVLIF
FLEIAVAVLAFLEGDWYDDRFREFFESNIKSYNDDIDLONLIDSLOKKANQCCGAYGPE
DWDLNYFNCSGASYSREKCGVPFSCCVPDPAQKVVNTQCGYDVRIQLKSKWDEFIFT
KGCIQALEGWLPRNIYIVAGVFIAISLLQIFGIFLARTLISDIEAVKAGHHF"

a 643 c 631 g 681 t
                                                                                                                                                                                                                                                                                                                                                                                                                                              /tissue_type="Mammary tumor. C3(1)-Tag model.ductal carcinoma. 5 month old virgin mouse." /clone_lib="MCI_CGAP_Mam6" /lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /clone="MGC:36554 IMAGE:4954874"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism="Mus musculus"
/db_xref="taxon:10090"
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Pred.
                                                                                                                                                               ore 811.8; DB 10; ed. No. 9.8e-176; Mismatches 182;
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Sciurognathi; Muridae;
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Kodaira,H., Furuya,T., Takahashi,M., Kikkawa,E., Omura,Y., Abe,K.,
Kamihara,K., Katsuta,N., Sato,K., Tanikawa,M., Yamazaki,M.,
Sugiyama,T., Irie,R., Otsuki,T., Sato,H., Wakamatsu,A., Ishii,S.,
Yamamoto,J., Isono,Y., Kawai-Hio,Y., Saito,K., Nishikawa,T.,
Yamashita,H., Matsuo,K., Nakamura,Y., Sekine,M.,
Kimura,K., Yamashita,H., Matsuo,K., Nakamura,Y., Sekine,M.,
Kikuchi,H., Murakawa,K., Kanehori,K., Takahashi-Fujii,A.,
Oshima,A., Sugiyama,A., Kawakami,B., Suzuki,Y., Sugano,S.,
Nagahari,K., Masuho,Y., Nagai,K. and Isogai,T.
Nagahari,K., Masuho,Y., Nagai,K. and Isogai,T.
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Homo sapiens cDNA FLJ30768 fis, clone FBBRA2000727.
AK055330
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Homo sapiens fetus brain cDNA to mRNA, clone_lib:FEBRA2 clone:FEBRA2000727.
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Direct Submission
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/db_xref="taxon:9606"
/clone="FEBRA2000727"
/tissue_type="brain"
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2; Mismatches 13;
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                                                                                                                                                 Direct Submission
Submitted (23-APR-2002) Genome Therapeutics Corporation, 10
Street, Waltham, MA 02453, USA
On Apr 23, 2002 this sequence version replaced gi:18266617.
Location/Qualifiers
                                                                                                                                                                                                                                   Submitted (12-JAN-2000) Genome Therapeutics Corporation, 100 Beaver Street, Waltham, MA 02453, USA 3 (bases 1 to 161804)
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Homo sapiens chromosome 10 clone RP11-137H2,
ACO21028
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Smith, D.R.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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 AGGTCGGCTGCTGCGGGAAATACTTCCTGTTTGGCTTCAACATTGTCTTCTGGGTGCTGG
                                         al Similarity
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Sequence 3 1
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; I
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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233 c 235 g 19
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                                        Score 362; DB Pred. No. 1.6e-0; Mismatches
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                                                                                                                        GCATCTGCCTGGCCCAGAACCTCGTGAGTGACATCAAGGCAGTGAAAGCC
                                                                                                                                                    GCATCTTCCTGGCAAGGACGCTGATCTCAGACATCGAGGCAGTGAAGGCC 864
                                                                                                                                                                                                                                                              GCAAGTGGGATGAGTCCATCTTCACGAAAGGCTGCATCCAGGCGCTGGAAAGCTGGCTCC
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                                                                                                                                                                               AGGACAACCTGATTGTGGTGGCGGGAGTCTTCATGGGCATCGCCCTCCTCCAGATCTTTG
                                                                                                                                                                                                                                     TGGAGCAGCAGGCTTCATCCACACCAAAGGCTGCGTGGGCCAGTTTGAGAAGTGGCTGC
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BC010346
Mus musculus, RIKEN ci
IMAGE:2811935, mRNA, c
BC010346
BC010346.1 GI:163075
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    GI:16307592
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                             complete cds
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TGGGCGTGGTGATGTTCACCCTGGGGTTCGCCGGCTGCGGGGGCTCTGCGGGAGAAATA 328
                                                                                                                                                                                       TGGCTGGAGTTGTCTTCCTTGGAGTCGGGCTGTGGGCATGGAGCGAAAAAGGGTGTGCTGT 208
                                                                                                                                                                                                                                                                               ACGCCAAAGTCAGCTGCTGGTACAAGTACCTCCTTTTCAGCTACAACATCATCTTCTGGT 148
                                                                      CCGACCTCACCAAAGTGACCCGGATGCATGGAATCGACCCTGTGGTGCTGGTCCTGATGG
                                                                                                                                                                                                                                                         ACCCTGAGGTCGGCTGCTGCGGGAAATACTTCCTGTTTTGGCTTCAACATTGTCTTCTGGG
                                                                                                                                                                 Clone distribution: MGC clone distribution through the I.M.A.G.E. Consortium/LLNL at: Series: IRAK Plate: 5 Now: f Column: 18.
Location/Qualifiers
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Tissue Procurement: Lothar Hennighausen Ph.D., Robin Hump
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Baylor College of Medicine Human Genom
Sequencing Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Direct Submission
Submitted (05-JUL-2001) National Institutes of Hes
Gene Collection (MGC), Cancer Genomics Office, Nat
Institute, 31 Center Drive, Room 11A03, Bethesda,
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house mouse.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Strausberg, R.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Web site: http://www.hgsc.bcm.tmc.edu/cdna/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: amg@bcm.tmc.edu
                                                                                                                                                                                                                                                                                                                                                                    Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          /db_xref="LocusID:74257"
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YTKGCVGQFEKWLQDNLIVVAGVVVGALLQIFGLCLAQNLVSDIKAVKANW"
461 g 361 t
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /product="RIKEN CDNA 2210021G21
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/db_xref="GI:16307593"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /lab_host="DH10B"
/note="Variation"
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old, gross tissue."
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/db_xref="taxon:10090"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note="Vector: pCMV-SPORT6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /clone="MGC:6941 IMAGE:2811935"
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65.6%;
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                                                                                                                                                                                                                                                                                                                                            Score 348.8; DB 1
Pred. No. 1.7e-69;
D; Mismatches 267
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                                                                                                                                                                                                                                                                                                                                                                                          DB 10;
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                                                                               cDNA Library Preparation: Rubin Laboratory CDNA Library Arrayed by: The I.M.A.G.E. Consortium DNA Sequencing by: Institute for Systems Biology http://www.systemsbiology.org contact: ammadan@systemsbiology.org Anup Madan, Rachel Dickhoff, Jessica Fahey, Stephan
                                                                                                                                                                              NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cyapbs-remail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                             Submitted (09-JUL-2001) National Institutes of Gene Collection (MGC), Cancer Genomics Office, Institute, 31 Center Drive, Room 11A03, Betheso
Clone distribution: MGC clone distribution through the I.M.A.G.E. Consortium/LLNL at: Series: IRAL Plate: 24 Row: k Column: 15
                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 2426)
                                                                                                                                                                                                                                                                                                                                                                                                                          BC010405.1 GI:14714540 MGC.
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MGC:14859 IMAG
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IMAGE:3621871, mRNA, of
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                    http://image.llnl.gov
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National Cancer
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                                                                                                                                                                                                                        GCAGCGGTGCCAGCTACAGCCGAGAGAAGTGCGGGGTCCCCTTCTCCTGCTGCGTGCCAG
                                                                                                                                                                                                                                                             ACTGGTCTTGCTGCGGAGCCCGAGGCCCCAATGACTGGAACCTCAATATCTACTTCAACT
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CGCGGAACATTTACATTGTGGCTGGCGTCTTCATCGCCATCTCGCTGTTGCAGATATTTG
                                                          GCAAGTGGGATGAGTCCATCTTCACGAAAGGCTGCATCCAGGCGCTGGAAAGCTGGCTCC
                                                                                                           ACCCTGCGGAGGATGTCCTCAACACCCAGTGTGGCTACGACGTCCGGCTCAAACTGGAGC
                                       TGGAGCAGCAGGGCTTCATCCACACCAAAGGCTGCGTGGGCCAGTTTGAGAAGTGGCTGC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /protein_id="AAH10405.1"
/db_xref="GI:14714541"
/db_xref="GI:14714541"
/tanslation="MoreKHOHFQEPEVGCCGKYFLFGFNIVFWYLGALFLAIGLWAWG
/translation="MoreKHOHFQEPEVGCCGKYFLFGFNIVFWYLGALFENTFLLKFFSVFLGL
EKGYLSNISALTDLGGLDPVWLFVVVGGVMSVLGFAGCIGALRENTFLLKFFSVFLGL
IFFLELATGILAFVFKDWIRDQLNLFINNNVRAYRDDIDLQNLLDFAGEYWSCCGARG
PNDWNLNIYFNCTDLNPSRERCGVPFSCCVRDPAEDVLNTQCGYDVRLKLELEQQGFI
PNDWNLNIYFNCTDLNPSRERCGVPFSCCVRDPAEDVLNTQCGYDVRLKLELEQQGFI
HTKGCVQOFEKKILQNILLVVAGVFWGIALLQIFGICLAQNLEQME"
a 662 c 716 g 541 t
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/tissue_type="Pancreas, adenocaro
/clone_lib="NIH_MGC_39"
/lab_host="DH10B-R"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Homo sapiens"
/db_xref="taxon:9606"
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               TCCTTTTCAGCTACAACATCATCTTCTGGTTGGCTGGAGTTGTCTTCCTTGGAGTCGGGC
 GAATCGACCCTGTGGTGCTGGTCCTGATGGTGGGCGTGATGTTCACCCTGGGGTTCG
                                                                                                       TGTGGGCGTGGAATGAAAAAGGTGTCCTCCCAACATCTCGTCCATCACCGACCTCGGTG
                                                                                                                                TGTGGGCATGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAAGTGACCCGGATGCATG
                                                                                                                                                           TCATTTTTGGCTTCAATGTCATATTTTGGTTTTTTGGGAATAACGTTTCTTGGAATCGGAC
                                                                                                                                                                                                               CCCAGAGGATGTCCGGGAAGCACTACAAGGGTCCTGAAGTCAGTTGTTGCATCAAATACT
                                                                                                                                                                                                                                       CTCAGAAGATGCACTATTATAGATACTCTAACGCCAAAGTCAGCTGCTGCTACAAGTACC 118
                                                                                                                                                                                                                                                                    al Similarity
516; Conser
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Submitted (20-JAN-1999) Dept.
University of Barcelona, Av.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Garcia-Frigola, C., de Lecea, L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 (bases 1 to 3175)
Garcia-Frigola,C., de Lecei
Mouse Tspan-5 cDNA cloning
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                                                                                                                                                                                                                                                                                                                                    667
                                                                                                                                                                                                                                                                  24.5%;
llarity 63.8%;
Conservative
                                                                                                                                                                                                                                                                                                                                /product="tetraspanin Tspan-5"
/protein_id="AAF28869.1"
/protein_id="AAF28869.1"
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DWNLNIYFNCTDSNASRERGGVPFSCCTKDFAGDVINTQCGYDARQKPEVQQIVIYT
KGCVPQFEKWLDDNLTIVAGIFIGIALLQIFGICLAQNLVSDIEAVRASW"
a 811 c 840 g 857 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /gene="Tspan5"
388. .1194
                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note="member of transmembrane 4
/codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /strain="Swiss Webster/NIH"
/db_xref="taxon:10090"
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Pred. No. 1.6e-67;
0; Mismatches 293;
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Diagonal 645, Barcelona 08028, Spain
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Submitted (14-MAY-1998) INSERM U268,
Villejuif 94807, France
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Rubinstein, E., Serru
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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BASE COUNT ORIGIN Ωy DЬ ρy В 50 당 οy В Q В 9 망 δŏ В QΥ 밁 δÃ В δÃ 8 8 밁 γQ 망 Š В Š 밁 Query Match Best Local Similarity Matches 524; Conserv 1034 1094 494 213 374 TGAAGTCAGTTGTTGCATCAAATACTTCATATTTTGGCTTCAATGTCATATTTTGGTTTTT 314 GCTGCCGGGGCAAGTGTCTTCATGAACCCAGAGGATGTCCGGGAAGCACTACAAGGGTCC 614 333 554 273 854 573 513 734 453 674 393 693 914 633 794 93 CAAAGTCAGCTGCTGGTACAAGTACCTCCTTTTCAGCTACAACATCATCTTCTGGTTGGC 152 33 GCCGCCGCGCGCGCGCATTCTGCTTCTCAGAAGATGCACTATTATAGATACTCTAACGC CAACATCAAGTCCTACCGGGACGATATCGATCTGCAAAACCTCATCGACTCCCTTCAGAA 512 CGTGCTGGCCTTCCTGTTCCAGGACTGGGTGAGGGACCGGTTCCGGGAGTTCCTTCGAGAG 452 AGGAGTGATGTTCATTTTGGGATTTGCAGGGTGCATTGGAGCGCCTACGGGAAAACACTTT CATCTCTTCCATCACCGATCTCGGCGGCTTTGACCCAGTTTGGCTCTTTCCTTGTGGTGG CCTCACCAAAGTGACCCGGATGCATGGAATCGACCCTGTGGTGCTGGTCCTGATGGTGGT CCTTCTCAAGTTTTTTTCTGTGTTTCCTGGGAATTATTTTCTTCCTGGAGCTCACTGCCGG CGTGGTGATGTTCACCCTGGGGTTCGCCGGCTGCGTGGGGGCTCTGCGGGAGAATATCTG 332 AGATCCTGCGCAAAAAGTTGTGAACACACAGTGTGGATATGATGTCAGGATTCAGCTGAA 692 TTGCACAGATTCCAATGCAAGTCGAGAGCGATGTGGCGTTCCATTCTCCTGCTGCACTAA 913 TGGCATCTTCCTGGCAAGGACGCTGATCTCAGACATCGAGGCAGTGAAGGCCGGC 867 GAGCAAGTGGGATGAGTCCATCTTCACGAAAGGCTGCATCCAGGCGCTGGAAAGCTGGCT 752 TTGCAGCGGTGCCAGCTACAGCCGAGAGAAGTGCGGGGTCCCCTTCTCCTGCTGCGTGCC TGGGATATGCCTGGCCCAGAATTTGGTTAGCGATATCGAAGCTGTCAGGGCGAGC 1148 CCCGCGGAACATTTACATTGTGGCTGGCGTCTTCATCGCCATCTCGCTGTTGCAGATATT 812 AGTTGACCAGCAGATTGTAATCTACACGAAAGGCTGTGTGCCCCCAGTTTGAGAAGTGGTT 309 Conservative D) 24.3%; 0; Score 337.4; DB 9; Length 1405; Pred. No. 7.1e-67; 0; Mismatches 311; Indels 0; Gaps 433 92 373 632 1033 613 553 272 1093 673 0;

Search completed: December Job time: 2928 secs 19, 2002, 04:48:40

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Minimum
Maximum
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Perfect score:
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Sequence 6, Appli	•	`	Sequence 6, Appli	Sequence 1, Appli	Sequence 2, Appli	Sequence 1, Appli	Sequence 7, Appli	•	Sequence 14, Appl	•	•	Sequence 17, Appl	•	Sequence 17, Appl	Sequence 17, Appl	Sequence 17, Appl	Sequence 1, Appli

## ALIGNMENTS

US/09188930A

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APPLICANT: Watton, James D.

APPLICANT: Strachan, Lorna
APPLICANT: Strachan, Matthew
APPLICANT: Sleeman, Matthew
APPLICANT: Sleeman, Matthew
APPLICANT: Murison, James Greg
TITLE OF INVENTION: Compositions Isolated From Skin Cel
TITLE OF INVENTION: and Methods For Their Use
FILE REFERENCE: 11000.1011c1
CURRENT APPLICATION NUMBER: US/09/188,930A
CURRENT FILING DATE: 1998-11-09
NUMBER OF SEQ ID NOS: 348
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 62
LENGTH: 399
; Sequence 243, Application US/09188930A
Patent NO. 6150502
; GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Strachan, Lorna
APPLICANT: Sleeman, Matthew
APPLICANT: Old Applicant, Rene
APPLICANT: Old Applicant, Rene
APPLICANT: Murison, James Greg
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Best Local Similarity
Matches 117; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 95 AAGTCAGCTGCTGGTACAAGTACCTCCTTTTCAGCTACAACATCATCTTCTGGTTGGCTG 154
                                                                                                                                                                                                                                                                                                                   TCTCGTCCATCACCGACCTCGGTGGCTTTGACCCAGTGTGGGCTTTTCCTCTGAGTGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                GAGTTGTCTTCCTTGGAGTCGGGCTGTGGGCATGGAGCGAAAAAGGGTGTGCTGTCCGACC 214
                                                                                                                                                                                                                                                                                                                                                                TCACCAAAGTGACCCGGATGCATGGAATCGACCCTGTGGTGCTGGTCCTGATGGTGGGC 273
                                                                                                                                                                                                                                                                                                                                                                                                                   GAATAACGTTTCTTGGAATCGGACTGTGGGCGTGGAATGAAAAAGGTGTCCTCCCAACA 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAGTCAGTTGTTGCATCAAATACTTCATTTTTGGCTTCAATGTCATATTTTTGGTTTTTGG 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 79.8; DB 3; Pred. No. 2.8e-12; 0; Mismatches 62;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 399;
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; ORGANISM: Mouse
US-09-188-930-243
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-254-493-2
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SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 243
LENGTH: 399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 2, Application US/08254493 Patent No. 5439886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 5.7
Best Local Similarity 65.4
Matches 117; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REFERENCE: 11000.1011c1
CURRENT APPLICATION NUMBER: US/09/188,930A
CURRENT FILING DATE: 1998-11-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: Compositions Isolated From Skin Cells TITLE OF INVENTION: and Methods For Their Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: DAVID G. CONLIN; DIKE, BRONSTEIN, ROBERTS & CUSHMAN
                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/865552
FILING DATE: 09-APR-1992
                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: MONOCLONAL ANTIBODY, TITLE OF INVENTION: PRODUCTION THEREOF
                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 079996-1991
FILING DATE: 12-APR-1991
                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION DATA: APPLICATION NUMBER: US
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                                                                                  PRIOR APPLICATION DATA:
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                                 ATTORNEY/AGENT INFORMATION:
                                                                                                                                         PRIOR APPLICATION DATA:
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CITY: I
STATE:
                                                                                                       APPLICATION NUMBER: JP 0: FILING DATE: 17-APR-1991
                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY: US
ZIP: 02109
                                                APPLICATION NUMBER: JP 0:
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                                                                                                                                                                                                                                                                       CLASSIFICATION:
                                                                                                                                                                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                                            SOFTWARE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BOSTON
                  RESNICK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MASSACHUSETTS
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MIYAKE, MASAYUKI
SENOO, MASAHARU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          130 WATER STREET
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IKEYAMA, SHUICHI
NUMBER:
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DAVID S.
MBER: 34235
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                                                                       JP 022321-1992
                                                                                                                          JP 085396-1991
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Pred. No. 2.8e
0; Mismatches
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                                                                                                                                                                                                                                                      Patent No.
                                                                                                                                                                                                                                                                Sequence 2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches 199;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local :
                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Keyama, Masaru
APPLICANT: Koyama, Masaru
APPLICANT: Miyake, Masauyki
APPLICANT: Senoo, Masaharu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 523-3400
TELEFAX: (617) 523-6440
TELEX: 200291 STRE UR
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
COMPUTER READABLE FORM: MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORIGINAL SOURCE:
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                                                                                                                         CORRESPONDENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE:
                                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                                         TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                  447
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        135
                               STATE: MA COUNTRY: US ZIP: 02109
                                                                                                                                                                                                                                                                                                                                                                                                                                               387
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15 AGGCACCAAGTGCATCAAATACCTGCTGTTCGGATTTAACTTCATCTTCTGGCTTGCCGG
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CELL LINE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
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                                                                             CITY: Boston
                                                                                             STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM:
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                                                                                                            ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 687 base pairs
                                                                                                                                                                                                                                                                                                                                                                                  CGAGAGCAACATCAA 461
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                                                                                                                                                                                                                                                                                                                                                   CAAGGACACCTACAA 389
                                                                                                                                                                                                                                                                                                                                                                                                                                            TGTGGCCGTGCTGGCCTTCCTGTTCCAGGACTGGGTGAGGGACCGGTTCCGGGAGTTCTT 446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGCCGGCGCCCTCATGATGCTGGTGGGCTTCCTGGGCTGCTGCGGGGCTGTGCAGGAGTC 254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CACCAAAGTGACCCGGATGCATG-----GAATCGACCCTGTGGTGCTGGTCCTGAT---
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCAGTGCATGCTGGGACTGTTCTTCGGCCTTCCTCTTGGTGATATTCGCCATTGAAATAGC
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                                                                                                                                                                                                                                                      , Application 5776727
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                                                                                             130 Water Street
                                               USA
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                                                                                                           E ADDRESS:
Dike, Bronstein,
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53.1%;
                                                                                                                                                          MONOCLONAL ANTIBODY, POLYPEPTIDES
                                                                                                                                                                                                                                                                     US/08408222B
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Pred. No. 1
                                                                                                              Roberts & Cushman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches 167;
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CURRENT APPLICATION DATA:

IBM Compatible SYSTEM: DOS FastSEQ Version 1.5

APPLICATION NUMBER:

22-MAR-1995

US/08/408,222B

OPERATING SYSTEM:

FILING DATE: 2: CLASSIFICATION:

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US-08-408-2228-2
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 41777-DIV
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/254,493
FILING DATE: 06-JUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
PRIOR APPLICATION UNBER: JP-085396-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE:
HYPOTHETICAL: 1
ANTI-SENSE: NO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
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ORIGINAL SOURCE:
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375
                                                                   447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      216 CACCAAAGTGACCCGGATGCATG-----GAATCGACCCTGTGGTGCTGGTCCTGAT--- 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                156 AGTTGTCTTCCTTGGAGTCGGGCTGTGGGCATGGAGCGAAAAGGGTGTGCTGTCCGACCT 215
                                                                                                                                                                                                                                                                               255 CCAGTGCATGCTGGGACTGTTCTTCGGCTTCCTTGGTGATATTCGCCCATTGAAATAGC
                                                                                                                                                                                                                                                                                                                                                      327 TATCTGCTTGCTCAACTTTTTCTGTGGCACCATCGTGCTCATCTTCCTTGGAGCTGGC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     75 GATTGCTGTCCTTGCCATTGGACTATGGCTCCGATTCGACTCTCAGACCAAGAGCATCTT 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15 AGGCACCAAGTGCATCAAATACCTGCTGTTCGGATTTAACTTCATCTTCTGGCTTGCCGG 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    96 AGTCAGCTGGTACAAGTACCTCCTTTTCAGCTACAACATCATCTTCTGGTTGGCTGG 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CELL TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY:
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CAAGGACACCTACAA 389
                                                                                                                                                                                                                                                                                                                                                                                                                                 AGCCGGCGCCCTCATGATGCTGGTGGGCTTCCTGGGCTGCTGCGGGGCTGTGCAGGAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGTGGGCGTGGTGATGTTCACCCTGGGGTTCGCCGGCTGCGTGGGGGCTCTGCGGGAGAA 326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGAGCAAGAAACTAATAATAATTCCAGCTTCTACACAGGAGTCTATATTCTGATCGG
                                                           CGAGAGCAACATCAA 461
                                                                                                                                      TGCGGCCATCTGGGGATATTCCCCACAAGGATGAGGTGATTAAGGAAGTCCAGGAGTTTTA 374
                                                                                                                                                                                                            TGTGGCCGTGCCTGCCTGTTCCAGGACTGGGTGAGGGACCGGTTCCGGGAGTTCTT
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617-523-6440
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cDNA to genomic RNA
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Pred. No. 1.8e-09;
0; Mismatches 167;
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96 AGTCAGCTGGTACAAGTACCTCCTTTTCAGCTACAACATCATCTTCTGGTTGGCTGG 155

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US-08-408-222B-3
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Best Local
Matches 1
               Query Match
Best Local
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                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 06-JUN-
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: FastSEQ Version 1.5 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Dike, Bronstein, Roberts & Cushman STREET: 130 Water Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: 536 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION: TELEPHONE: 617-523-3400
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APPLICATION NUMBER:
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APPLICATION NUMBER:
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NUMBER OF SEQUENCES:
                                                                                                                   FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                        HYPOTHETICAL: 1
                                                                                                                                                                             FRAGMENT TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                   MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OPERATING SYSTEM:
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                                                                                                                                CELL TYPE: breast carcinoma CELL LINE: ZR-75-1
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                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 14-APR-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 08/254,493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 22-MAR-1995
                                                                       OTHER INFORMATION:
                                                                                        LOCATION:
                                                                                                    NAME/KEY:
                                                                                                                                                               ORGANISM:
                                                                                                                                                                                                                                                                STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                   NAME:
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                                                                                                                                                                                                                                                                                            LENGTH:
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               Similarity
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Resnick, David S.
Resnick, 34,235
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Senoo, Masaharu
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Score 69.8; DB 1;
Pred. No. 2.2e-09;
0; Mismatches 167;
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                             Length 1120;
   Indels
   9;
 Gaps
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FILE REFERENCE: SUNY
CURRENT APPLICATION NUMBER: US/09/333,599
CURRENT FILING DATE: 1999-06-15
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 827
TYPE: DNA
ORGANISM: Homo sapiens
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; NAME/KEY: CDS
; LOCATION: (57)..(815)
US-09-333-599-5
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US-09-333-599-5
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Quigley, James P.
APPLICANT: Seandel, Marco
TITLE OF INVENTION: MONOCLONAL ANTIBOIDES THAT RECOGNIZE ANTIGENS
TITLE OF INVENTION: ASSOCIATED WITH TUMOR METASTASIS
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    334
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                                                                                                                   A---CCAAAGTGACCCGGATGCATGGAATCGACCCTGTGGTGCTGGTCCTGATGGTGGGC
GTGGTGATGTTCACCCTGGGGTTCGCCGGCTGCGTGGGGGCTCTGCGGGAGAATATCTGC
                                                                                                                                                                                                                                 GTCAGCTGCTGGTACAAGTACCTCCTTTTCAGCTACAACATCATCTTCTGGTTGGCTGGA 156
                            ATGGTGACTGGGGTCTTGGGCTGCTGCGCCACCTTCAAGGAGCGTCGGAACCTGCTGCGC
                                                                                                                                                                      GTTGTCTTCCTTGGAGTCGGGCTGTGGGCGATGGAGCGAAAAGGGGTGTGCTGTCCGACCTC 216
                                                                                                                                                                                                                CTGGCCTCAGGCACCTACCTGGCCACAGCCTACATCCTGGTGGTGGCGGGCACTGTCGTC
                                                                                                                                                   CTGGCTGTCATGGCAGTGGGCATCTGGACGCTGGCCCTCAAGAGTGACTACATCAGCCTG
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ilarity 48.4%;
Conservative
                                                                                                                                                                                                                                                                           Score 68.6; DB 4;
Pred. No. 4e-09;
0; Mismatches 234;
                                                                                                                                                                                                                                                                                                        Length 827;
                                                                                                                                                                                                                                                                             Indels
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APPLICANT: Quigley, James P.
APPLICANT: Seandel, Marco
FITLE OF INVENTION: MONOCLONAL ANTIBOIDES TH
FILE REFERENCE: SUNY
CURRENT APPLICATION NUMBER: US/09/333,599
CURRENT FILING DATE: 1999-06-15
NUMBER OF SEQ ID NOS: 5
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1
LENGTH: 870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; LENGTH: 870
; TYPE: DNA
; ORGANISM: Homo :
US-09-333-599-1
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Best Local Similarity
Matches 222; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1, Application US/09333599 Patent No. 6245898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Testa, Jacqueline APPLICANT: Onigley, James P.
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                 GCTAACCAGTGCTGTGGCGCGCATATGGCCCCTGAAGACTGG 552
                                                                                                                                                   GTGCTGGCCTTCCTGTTCCAGGACTGGGTGAGGGACCGGTTCCGGGGAGTTCTTCGAGAGC
                                                                                                                                                                                                                                                                               GTGGTGATGTTCACCCTGGGGTTCGCCGGGCTGCGTGGGGGGCTCTGCGGGAGAATATCTGC
                                                            AAGCGCTACCACCAGCCGGCCATGAGGCTGTGACCAGCGCTGTGGACCAGCTGCAGCAG
                                                                                        AACATCAAGTCCTACCGGGACGATATCGATCTGCAAAACCTCATCGACTCCCTTCAGAAA 513
                                                                                                                       TACGCCTACTACCAGCAGCTGAACACGGAGCTCAAGGAGAACCTGAAGGACACCATGACC
                                                                                                                                                                                   CTGTACTTCATCCTGCTCCTCATCATCTTTCTGCTGGAGATCATCGCTGGTATCCTCGCC
                                                                                                                                                                                                                                                                                                              CTGGCCTCAGGCACCTACCTGGCCACAGCCTACATCCTGGTGGTGGCGGGCACTGTCGTC
                                                                                                                                                                                                                                                                                                                                A---CCAAAGTGACCCGGATGCATGGAATCGACCCTGTGGTGCTGGTCCTGATGGTGGC
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Pred. No. 4.1e-09;
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592
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US-08-254-493-3
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                                                                US-08-254-493-3
                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: 41777
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 523-5400
TELEFAX: (617) 523-6440
TELEEX: 200291 STRE UR
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1120 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Patent No.
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Query Match
Best Local Similarity
Matches 196; Conserv
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: DAVID G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Patentin Rel
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: MONOCLONAL TITLE OF INVENTION: PRODUCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
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APPLICATION NUMBER:
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                                                                                                            FEATURE:
                                                                                                                                                        FEATURE:
                                                                                                                                                                                                                                                 HYPOTHETICAL:
                                                                                                                                                                                                                       DRIGINAL SOURCE:
                                                                                                                                                                                                                                                                   OLECULE TYPE:
                                                                                                                                                                                                                                 NTI-SENSE:
                                                                                                                                                                       CELL TYPE:
CELL LINE:
                                                                               NAME/KEY:
LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: RESNICK, DAVID S. REGISTRATION NUMBER: 34235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 07-FEB-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: JP 01 FILING DATE: 17-APR-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: FILING DATE: 12-AP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US 07/865552 FILING DATE: 09-APR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: BOSTON
                                                                                                                                                                                                                                                                                             STRANDEDNESS:
                                                                                                                                                                                                                                                                                                             TYPE: nucleic acid
                                                                                                                            LOCATION:
                                                                                                                                           NAME/KEY:
                                                                                                                                                                                                     ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3, 21, 2886
3, 5439886
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KOYAMA, MASARU
MIYAKE, MASAYUKI
   Conservative
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115..795
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JP 079996-1991
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    0;
              Score 65; DB 1;
Pred. No. 4.3e-08;
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    Mismatches 170;
                              Length 1120;
    Indels
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US-08-705-771-8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: Paul M
APPLICANT: Jian N
                                                                                                  TELEFAX: 973-994-1744
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                APPLICATION NUMBER: US/01
FILING DATE: August 30,
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: MULLINS, J.G.
                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH DISKETTE
TOPOLOGY: 1 MOLECULE TYPE:
                                                                                                                               TELEPHONE: 973-994-1700
                                                                                                                                                                                                                                                                                  SOFTWARE: WORD PERFECT CURRENT APPLICATION DATA:
                                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    126 AGGCACCAAGTGCATCAAATACCTGCTGTTCGGATTTAACTTCATCTTCTGGCTTGCCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   306
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                                                                                                                                                               REFERENCE/DOCKET NUMBER: 32
                                                                                                                                                                                                                                                                                                                     OPERATING SYSTEM: MS-DOS
                                                                                                                                                                                                                                                                                                                                         COMPUTER:
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                               STRANDEDNESS:
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                                                                  LENGTH:
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                                             nucleic acid
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NEW JERSEY
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                                                               1344 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Paul Moore, Reiner Gentz,
Jian Ni and Jing-Shan Hu
WENTION: Human Genes, Sequ
                                                                                                                   973-994-1744
                                                                                                                                                                                                                                                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                  WORD PERFECT 5.1
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                 linear
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CECCHI, STEWART & OLSTEIN
                               single
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                                                                     INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                       OPERATING SYSTEM: DOS
SOFTWARE: FASLEEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/855,140
FILING DATE: Herewith
                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Guegler, Karl J.
TITLE OF INVENTION: NEW TRANSMEMBRANE PROTEIN
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tent No. 5854022
                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
                                                      SEQUENCE CHARACTERISTICS
                                                                                                               TELEPHONE: 415-855-0555
                                                                                                                                                                                                             CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
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CITY: Palo Alto
           STRANDEDNESS:
                                                                                                                                        REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                 FILING DATE:
                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE:
COMPUTER: II
 TOPOLOGY:
                                         LENGTH:
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52.6%;
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Pred. No. 1
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1.8e-07;
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; LIBRARY: MYOMN
; CLONE: 779308
US-08-855-140-2
                                                                                                                                                                                                                                                                                                                                                             Sequence 2, Application US/08807044 Patent No. 5863735
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Best Local Similarity
Matches 248; Conserv
                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                              COMPUTER READABLE FORM
                                                             CURRENT APPLICATION DATA
                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                             APPLICANT: Hillman, Jennifer L. APPLICANT: Goli, Surya K.
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                               TITLE OF INVENTION:
                                                                                                                                                                                               STREET: 31/.
CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                                              613 GGTTCCCGACCGCTGCTGCATGGAGAACTCCCAGGGC 649
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                                                                           COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
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                              APPLICATION NUMBER: UFILING DATE: Herewith
                 CLASSIFICATION:
                                                                                                                             MEDIUM TYPE: Diskette
                                                                                                                                                                                COUNTRY:
                                                                                                                                                                                                                                                 ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAGCGGTGCCAGCTACAGCCGAGAGAGAGTGCGGGGTC 612
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                                                                                                                                                                  94304
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                                               US/08/807,044
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Pred. No. 2.9e-07;
0; Mismatches 257;
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                                                                                                                                                                                                                                                   Sequence 19, Application US/08430225A
Patent No. 6204000
GENERAL INFORMATION:
APPLICANT: Dong, Jin-Tang; Barrett
APPLICANT: J. Carl; Lamb, Patricia
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          COMPUTER READABLE FORM:
MEDLUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
                                                                                                                                                                                                    APPLICANT: Dong, Jin-Tang; Barrett,
APPLICANT: J. Carl; Lamb, Patricia W.;
TITLE OF INVENTION: DIAGNOSTIC METHODS
TITLE OF INVENTION: GENE THERAPY USING
TITLE OF INVENTION: HUMAN METASTASIS SU
                                                                                                                                                                        NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
CURRENT APPLICATION
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TELEPHONE: 415-855-0555
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ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                  411 CCAGGACTGGGT 422
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                                                                                                                STREET: 345 PARI
CITY: NEW YORK
STATE: NEW YORK
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                                                                                                COUNTRY:
                                                                                                                                                           ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Billings, Lucy J. REGISTRATION NUMBER: 36,749 REFERENCE/DOCKET NUMBER: PF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: 415-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                              CCTGCTGCTGCTGGTGTTCCTGCTGGAGGCCACCATCGCCATCCTCTTCTTCGCCTA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAAGTACCTCATGTTCGCCTTCAACCTGCTNTTCTGGCTGGGAGGCTGTGGCGTGCTGGG 299
                                                                                     10154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nucleic acid
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                                                                                                                                               345 PARK AVENUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1151 base pairs
                                                                                                  USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SCORNOT01
                                                                                                                                                          MORGAN & FINNEGAN, L.L.P.
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51.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. 4e-07;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 61.4;
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                                                                                                                                                                                                       SUPPRESSOR
                                                                                                                                                                                                                                     AND
                                                                                                                                                                                                                     REAGENTS
                                                                                                                                                                                                                                                Isaacs, John
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                                                                                                                                                                                                      GENE KAI1
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RESULT 13
US-08-807-044-4
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                                                                                                                                                                                                                                                                                                                                                                          Sequence 4, Application Patent No. 5863735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
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              SOFTWARE: FastSEQ for Windows Version CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/807,044
FILING DATE: Herewith
                                                                                                                       COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                  APPLICANT: Hillman, Jen APPLICANT: Goli, Surya
                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: 20 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                            STREET: 31/.
CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION: NAME: RICHARD W. BORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 492 CATGGGCAAGCTGAAGCAGGAGATGGGCGGCATCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    411 CCAGGACTGGGTGAGGGACCGGTTCCGGGAGTTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     171 AGTCGGGCTGTGGGCATGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAAGTGACCCG 230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        192 CAAATACTTTCTCTTCCTCTTCAACTTGATCTTCTTTATCCTGGGCGCAGTGATCCTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 111 CAAGTACCTCCTTTTCAGCTACAACATCATCTTCTGGTTGGCTGGAGTTGTCTTCCTTGG 170
                                                                                  COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
                                                                                                                                                           COUNTRY: UZIP: 94304
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS: sir
TOPOLOGY: linear
                                                                                                                                                                                                                                               ADDRESSEE: Incyte Pharmaceuticals, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEX: 421792
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Local Similarity 47.6%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 1624 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGGCACCATCGTGCTCATCTTCCTTGGAGCTGGCTGTGGCCGTGCTGGCCTTCCTGTT 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGCTTTCCTGCTCCTGATCCTCATTGCCCAGGTGACGGCCCGGGGCCCTCTTCTACTTCAA 491
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                                                                                                                                                                                                                            3174 Porter Drive
                                                                                                                                                                           USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : (212) 758-4800
(212) 751-6849
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                                                                                                                       Diskette
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DN: 514
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NOVEL HUMAN TRANSMEMBRANE
                                                                                                                                                                                                                                                                                                                                     Jennifer L.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    446
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PRIOR APPLICATION DATA:

APPLICATION NUMBER: FILING DATE:

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                                                                                                                                                                                                                                                                                                                                                                       Sequence 1, Application PC/TUS9104986 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches 144; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 1452 base pairs
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: line IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION: TELEPHONE: 415-855-0555
                                                                                                                                                    CORRESPONDENCE ADDRESS
                                                                                                                                                                   NUMBER OF SEQUENCES:
                                                                                                                                                                                        TITLE OF INVENTION:
                                                                                                                                                                                                                        APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             357 CTGAGGTGACCTTGGCCATCCTGCTCTTTGTATATGAACAGAAGCTGAATGAGTATGTGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           317 TGCGGGAGAATATCTGCTTGCTCAACTTTTTCTGTGGCACCATCGTGCTCATCTTCTTCC 376
                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LIBRARY: GenBa
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: 415-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
                                                                                CITY: Boulder
STATE: Colorado
                                                                                                                 STREET:
                                                                                                                                      ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCGACTCCCTTCAGAAAGCTAACCAGTGCTGTGGCGCATATGGCCCTGAAGACTGG
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                                                                                                                 5370 Manhattan Circle, Suite 201
                                                                  USA
                                                                                                                                                                                                        Amiot, Martine
                                                                                                                                                                                                                    Stamenkovic, Ivan
Stengelin, Siegfried
                                                                                                                                                                                                                                                     Simmons,
                                                                                                                                                                                                                                                                   Oquendo,
                                                                                                                                                                                                                                                                                                      Camerini,
                                                                                                                                                                                                                                                                                                                      Aruffo, Alejandro
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                                                                                                                                                                                                                                                                                                                                      Allen, Janet
                                                                                                                                                                                                                                                                                                                                                          Seed, Brian
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                                                                                                                                      Greenlee & Associates
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                                                                                                                                                                                                                                                     Carmen
David L.
                                                                                                                                                                                     Rapid Immunoselection Cloning Method
                                                                                                                                                                                                                                                                                                        David
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches 152;
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RESULT 15
US-09-020-956-16/c
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                                                                                                                   Sequence 16, Application US/09020956 Patent No. 6261562
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          GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillin, Davin C.
TITLE OF INVENTION: COMPOUNDS
NUMBER OF SEQUENCES: 178
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 303-499-8089
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/379,076
FILING DATE: 13-JUL-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
NAME: Wall, Margaret M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 13-JUL-
PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 33,462
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SEED and BERRY LLP
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25-FEB-1988
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; TYPE: nucleic acid
; STRANDEDNESS: single
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US-09-020-956-16
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FILING DATE: 09-FEB-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.427C2
REFERENCE/DOCKET NUMBER: 210121.427C2
REFERENCE/DOCKET NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 31,392
REFERENCE/OFF NUMBER: 31,392
TELEPHONE: (206) 682-6931
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 801 base pairs
TYPER: NUMBER: 31,392
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Search completed: December 19, 2002, 05:20:31 Job time : 63 secs
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Best Local Similarity
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               268 GTGGGCGTGGTGATGTTCACCCTGGGGTTCGCCGGGGGCTCTGCGGGAGAAT 327
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Result
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Perfect score:
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351.8
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         US-09-905-674-1
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// Cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq: *
// Cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq: *
// Cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq: *
// Cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq: *
// Cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq: *
// Cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq: *
// Cgn2_6/ptodata/2/pubpna/US08_UBCOMB.seq: *
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        DB
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         ) US-09-934-268-3

) US-09-972-707-2

10 US-09-9725-299-205

10 US-09-9725-299-205

10 US-09-783-590-10353

) US-09-875-440-1

10 US-09-729-674-169

10 US-09-764-873-12

12 US-10-052-586-277

12 US-10-042-417-37

10 US-09-764-873-14

10 US-09-764-873-14

10 US-09-764-873-14

10 US-09-985-88-318

10 US-09-985-88-318

10 US-09-985-301-393

11 US-09-825-301-392

12 US-09-895-301-392

13 US-09-895-301-539

US-09-895-828-400

9 US-10-040-739-658
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Sequence 3, Appli
Sequence 2, Appli
Sequence 20, Appli
Sequence 205, App
Sequence 10353, A
Sequence 11, Appli
Sequence 12, Appl
Sequence 27, Appl
Sequence 37, Appl
Sequence 37, Appl
Sequence 31, Appl
Sequence 318, Appl
Sequence 321, Appl
Sequence 332, Appl
Sequence 392, Appl
Sequence 400, Appl
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CTGGTACAAGTACCT                    CTGCGGGAAATACTT  CTGCGGGGAATACTT  CCTTGGAGTCGGGCT  CCTGGCTATCGGCCT  GACCCGGATCCATGG                  GACCCGGATCTGGGAGG  CACCCTGGGGTTCGC  CACCCTGGGGTTCGC  CACCTGGGGTTCGC  CACCTGGGGTTCGC  CACCTGGGGTTCGC  CACCTGGGGTTCGC  CACCTGGGGTTCGC  CACCTGGGGCTTCGC  CACCTGGGCTTCGC  CACCTGGGCTTCGC  CACCTGGGCTTCGC  CACCTGGGCACCAT	US/099 US/099 US/099 US/090 WEMBER A MEMBER A MEMBER 60/ 000-08-21 UMBER: 60/ 000-08-21 Windows Windows Eens Eens Eens E6.1%	1175 343 343 343 343 343 466 515 515 516 517 318 413 318 413 318 413 318 413 318 413 318 413 318 318 318 318 318
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CCTTTTCAGCTACAACATCATC	4268  OVEL HUMAN TETRASPANIN D USES THEREOF  /09/934,268 21 26,612  Version 4.0  Version 4.0  Version 4.0  Score 362; DB 9; Lered No. 3.6e-88; pred. No. 3.6e-88; pred. No. 3.5e-88; pred. No. 3.5e-88;	US-09-960-352-11404 US-09-823-356-31 US-10-046-935-372 US-09-878-178-372 US-09-878-178-372 US-09-895-828-326 US-09-895-828-326 US-09-895-828-326 US-09-895-828-328 US-09-895-828-328 US-09-895-828-338 US-09-985-828-338 US-09-985-828-338 US-09-985-828-331 US-09-895-828-331 US-09-895-828-331 US-09-895-828-331 US-09-895-828-331 US-09-895-828-331 US-09-895-828-331 US-09-895-828-331 US-09-895-828-331 US-09-895-828-335 US-09-895-8
ATCATCITCTGGTTGGCTG 154	FAMILY  gth 813;  ndels 0; Gaps 0	Sequence 11404, A Sequence 31, Appl Sequence 372, App Sequence 325, App Sequence 326, App Sequence 326, App Sequence 1565, App Sequence 1565, App Sequence 1565, App Sequence 1563, App Sequence 278, App Sequence 338, App Sequence 331, App Sequence 311, App Sequence 312, App Sequence 314, App Sequence 315, App Sequence 316, App Sequence 317, App Sequence 317, App Sequence 318, App Sequence 319, App Sequence
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TITLE OF INVENTION: 23228, A NOVEL HUMAN TETRASPANIN FAMILY
TITLE OF INVENTION: MEMBER AND USES THEREOF
FILE REFERENCE: 10448-079001
CURRENT APPLICATION NUMBER: US/09/934,268
CURRENT FILING DATE: 2001-08-21
PRIOR APPLICATION NUMBER: 60/226,612
PRIOR FILING DATE: 2000-08-21
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO
TYPE: DNA
CORANTEM: USTO Gaptions
CORANTEM: USTO Gaptions
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; NAME/KEY: CDS
; LOCATION: (168)...(977)
US-09-934-268-1
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                                                                                                                                                                  Query Match
Best Local Similarity
Matches 515; Conserv
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                                                                                                                                                                                                                                                                                                   ORGANISM: Homo
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   TCACCAAAGTGACCCGGATGCATGGAATCGACCCTGTGGTGCTGGTCCTGATGGTGGGCG
                                                       GAGTTGTCTTCCTTGGAGTCGGGCTGTGGGGCATGGAGCGAAAAGGGTGTGCTGTCCGACC 214
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                                  GAGCCCTGTTCCTGGCCTATCGGCCTCTGGGCCTGGGGTGAGAAGGGCGTTCTCTCGAACA
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                                                                                                                                                                                   Score 362; DB 9;
Pred. No. 6.8e-88;
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                                                  TGGAGCAGCAGGGCTTCATCCACCACCAAAGGCTGCGTGGGCCAGTTTGAGAAGTGGCTGC
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GCATCTGCCTGGCCCAGAACCTCGTGAGTGACATCAAGGCAGTGAAAGCC
                                                                   CGCGGAACATTTACATTGTGGCTGGCGTGCTTCATCGCCATCTCGCTGTTGCAGATATTTG
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SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 2, Application US/09972970 Patent No. US20020164693A1
                                                                               Matches
                                                                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/972,970
CURRENT FILING DATE: 2001-10-10
PRIOR APPLICATION NUMBER: PCT/US01/11130
PRIOR FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: 60/195,336
PRIOR EFILING DATE: 2000-04-10
NUMBER OF SEQ ID NOS: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Shi et al.
TITLE OF INVENTION: TM4SF Receptor Polynucleotides, Polypeptides, and Antibodies
FILE REFERENCE: PT056P1
                                                                                                                                                                                                     TYPE: DNA
                                                                                                                                                                                                                           LENGTH: 2538
150 CCGAGGTCGGCTGCGGGAAATACTTCCTGTTTGGCTTCAACATTGTTTTCTGGGTGC
                                    92 CCAAAGTCAGCTGCTACAAGTACCTCCTTTTCAGCTACAACATCATCTTCTGGTTGG 151
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                                                                               Conservative
                                                                                                    25.3%;
                                                                                                                                                                                                                                                                      2.0
                                                                                 Score 351.8; DB 9;
Pred. No. 3.4e-85;
0; Mismatches 252;
                                                                                                                      Length
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                                                                 CURRENT APPLICATION NUMBER: US/09/925,299
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05883
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1556
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 205
LENGTH: 1655
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US-09-925-299-205
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                                                                                                                                                                                                                                                       Sequence 205, Application US/09925299 Patent No. US20020055627A1 GENERAL INFORMATION:
                                                                                                                                                                                                               APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins
FILE REFERENCE: PA102
NAME/KEY: misc_feature LOCATION: (1548)
                           FEATURE:
                                        ORGANISM: Homo sapiens
                                                         TYPE: DNA
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; NAME/KEY: misc_feature
; LOCATION: (1643)
; OTHER INFORMATION: n ed
US-09-925-299-205
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Best Local Similarity
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OTHER INFORMATION: n equals
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NAME/KEY: misc_feature
LOCATION: (1559)
OTHER INFORMATION: n equals a,t,g,
NAME/KEY: misc_feature
LOCATION: (1564)
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                                                                                                                       TTGCAGCGGTGCCAGCTACAGCCGAGAGAAGTGCGGGGTCCCCTTCTCCTGCTGCTGCGTGCC
                                                                                                                                                                                                                                                         CAACATCAGAGCATATCGGGATGACATTGATTTGCAAAACCTCATAGACTTCACCCAGGA
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                                GCAGGACAATTTAACCATCGTTGCTGGTATTTTCATAGGCATTGCATTGCTGCAGATATT
                                                                                                                                                                  AGCTAACCAGTGCTGTGGGGCGCATATGGGCCCTGAAGACTGGGACCTCAACGTCTACTTCAA
                                             CCCGCGGAACATTTACATTGTGGCTGGCGGCTCTTCATCGCCATCTCGCTGTTGCAGATATT
                                                                                               GAGCAAGTGGGATGAGTCCATCTTCACGAAAGGCTGCATCCAGGCGCTGGAAAGCTGGCT
                                                                                                                                                                                                               ATATTGGCAGTGCTGTGGGGCTTTTGGAGCTGATGATTGGAACCTAAATATTTACTTCAA
                                                                           AGTTGACCAGCAGATTGTAATCTACACGAAAGGCTGTGTGCCCCAGTTTGAGAAGTGGTT
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APPLICANT: Dillon, Patrick J.
APPLICANT: Haseltine, William A.
APPLICANT: Li, Hacdong
APPLICANT: Rosen, Craig A.
APPLICANT: Rosen, Steven M.
TITLE OF INVENTION: Human Genes, Sequences, and
FILE REFERENCE: PO-16.2C1
CURRENT APPLICATION NUMBER: US/09/783,590
CURRENT FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 08/420,856
PRIOR FILING DATE: 1995-04-12
PRIOR FILING DATE: 1995-04-12
PRIOR APPLICATION NUMBER: 08/346,731
PRIOR FILING DATE: 1994-11-21
NUMBER OF SEQ ID NOS: 12485
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 10353
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OTHER INFORMATION: n equals a,
NAME/KEY: misc feature
LOCATION: (195)
OTHER INFORMATION: n equals a,
NAME/KEY: misc feature
LOCATION: (285)
OTHER INFORMATION: n equals a,
OTHER INFORMATION: n equals a,
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-09-783-590-10353
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OTHER INFORMATION: n equals
NAME/KEY: misc feature
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OTHER INFORMATION: n equals a,t,g,
NAME/KEY: misc feature
LOCATION: (340)
OTHER INFORMATION: n equals a,t,g,
                                                           LOCATION: (408)
OTHER INFORMATION: n equals
NAME/KEY: misc feature
LOCATION: (411)
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TYPE: DNA
                                            OTHER INFORMATION: n equals
                                                                                                                                                           LOCATION: (394)
OTHER INFORMATION: n equals a,t,g,
NAME/KEY: misc feature
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OTHER INFORMATION: n equals a,t,g,
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LOCATION: (314)
OTHER INFORMATION: n equals a,t,g,
                             NAME/KEY: misc feature
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OTHER INFORMATION: n equals a,t,g, or
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    INFORMATION: n
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Best Local :
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Best Local Similarity
Matches 342; Conserv
                                                                                                                                                                                                      FEATURE:
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; OTHER INFORMATION: NET-4 oligonucleotide used in ; OTHER INFORMATION: assay on SW620 cells US-09-875-440-1
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                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 22

SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1

LENGTH: 864
TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1, Application US/09875440 Patent No. US20020156035A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Reinhard, Christoph
APPLICANT: Jefferson, Anne B.
APPLICANT: Winter, Jill A.
APPLICANT: Winter, Jill A.
APPLICANT: Randazzo, Filippo
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
TITLE OF INVENTION: NEOPLASTIC DISEASE USING NET-4 MODULA
FILE REFERENCE: PP-01701.002/200130.522
CURRENT APPLICATION NUMBER: US/09/875,440
CURRENT FILING DATE: 2001-06-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             747 CTGGCTCCCGCG-AACATTTACATTGTGGCTGGCGTCTTCATCGCCATCTCGCTGTTGC
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CAAAGTCAGCTGCTGGTACAAGTACCTCCTTTTCAGCTACAACATCATCTTCTGGTTGGC 152
                                                         GCTGCCGGGGCAAGTGTCTTCATGAACCCAGAGGATGTCCGGGAAGCACTACAAGGGTCC 373
                                                                                             GCCGCCGCCGCGCGCGCATTCTGCTTCTCAGAAGATGCACTATTATAGATACTCTAACGC 92
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87.98;
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Pred. No. 6e-57;
D; Mismatches 37;
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                                                                            ; ORGANISM: Homo sapiens US-09-729-674-169
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APPLICANT: McCoy, John M.
APPLICANT: LaVallie, Edward
APPLICANT: Collins Racie, L
APPLICANT: Evans, Cheryl
APPLICANT: Evans, Cheryl
APPLICANT: Treacy, Maurice
APPLICANT: Agostino, Michae
APPLICANT: Steininger II, R
                                                                                                                PRIOR APPLICATION NUMBER: 09/539,330
PRIOR FILING DATE: 2000-03-30
NUMBER OF SEQ ID NOS: 283
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 169
LENGTH: 1110
                                     Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 169, Application US/09729674 Patent No. US20010039335A1
                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                 TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM FILE REFERENCE: 6055-64X
CURRENT APPLICATION NUMBER: US/09/729,674
CURRENT FILING DATE: 2000-12-04
                                                                                                                                                                                                                                                   APPLICANT: Fechtel, Kim
APPLICANT: Genetics Institute,
                                                                                                       TYPE: DNA
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33 GCCGCCGCCGCGCGCATTCTGCTTCTCAGAAGATGCACTATTATAGATACTCTAACGC 92
                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CGTGGTGATGTTCACCCTGGGGTTCGCCGGCTGCGTGGGGGGCTCTGCGGGAGAATATCTG
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Treacy, Maurice
Agostino, Michael J.
Steininger II, Robert J.
Spaulding, Vikki
Wong, Gordon G.
                                                                                                                                                                                                                                                                                                                                                                         McCoy, John M.
LaVallie, Edward R.
Collins-Racie, Lisa /
Evans, Cheryl
                                                                                                                                                                                                                                                                              Clark, Hilary
                        16.5%; ilarity 57.1%; Conservative
                       Score 229; DB 10;
Pred. No. 3.1e-52;
2; Mismatches 292;
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RESULT 8
US-09-764-873-12
(Sequence 12, Application US/09764873
) Patent No. US20020151479A1

GENERAL IMPORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PTZ01
CURRENT APPLICATION NUMBER: US/09/764,873
CURRENT FILING DATE: 2001-01-17
PRIOR application data removed - consult PALM or file wrapper NUMBER OF SEQ ID NOS: 18
SOCTWARE: PatentIn Ver. 2.0
SEQ ID NO 12
LENGTH: 545
TYPE: DNA
ROSEN ANISM: Homo sapiens
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RESULT 9
US-10-052-586-277
Sequence 277, Application US/10052586
; Patent No. US20020127584A1
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                                      PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059266
PRIOR APPLICATION NUMBER: 60/062250
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063121
PRIOR APPLICATION NUMBER: 60/063121
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063540
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063541
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063541
PRIOR APPLICATION NUMBER: 60/063541
PRIOR APPLICATION NUMBER: 60/06354
PRIOR APPLICATION NUMBER: 60/06351
PRIOR APPLICATION NUMBER: 60/06311
PRIOR APPLICATION NUMBER: 60/066311
PRIOR APPLICATION NUMBER: 60/066466
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Zhang,Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: 93430R1C1
CURRENT APPLICATION NUMBER: US/10/052,586
CURRENT FILING DATE: 2002-01-15
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Godowski, Paul J
Gurney, Austin L
Pan, James
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Smith, Victoria
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Pred. No. 3.6e
0; Mismatches
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OR APPLICATION NUMBER: 60/080107
OR APPLICATION NUMBER: 60/080194
OR APPLICATION NUMBER: 60/080194
OR FILING DATE: 1998-03-31
OR APPLICATION NUMBER: 60/080327
OR APPLICATION NUMBER: 60/080333
OR FILING DATE: 1998-05-07
OR APPLICATION UNMBER: 60/085573
OR FILING DATE: 1998-05-15
OR PILING DATE: 1998-05-15
OR FILING DATE: 1998-05-15
OR APPLICATION UNMBER: 60/085580
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OR APPLICATION NUMBER: 60/081049

DR FILING DATE: 1998-04-08

DR APPLICATION NUMBER: 60/081070

DR FILING DATE: 1998-04-08

DR APPLICATION NUMBER: 60/081195
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OR APPLICATION NUMBER: 60/078939
OR FILING DATE: 1998-03-20
OR APPLICATION NUMBER: 60/079664
OR FILING DATE: 1998-03-27
OR APPLICATION NUMBER: 60/079786
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OR APPLICATION NUMBER: 60/069335
OR FILING DATE: 1997-12-11
OR APPLICATION NUMBER: 60/069425
OR FILING DATE: 1997-12-12
OR APPLICATION NUMBER: 60/069870
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FILING DATE: 1998-04-22
APPLICATION NUMBER: 60/083322
FILING DATE: 1998-04-28
APPLICATION NUMBER: 60/083495
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APPLICATION NUMBER: 60/081838
FILING DATE: 1998-04-15
APPLICATION NUMBER: 60/082568
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FILING DATE: 1998-04-29
APPLICATION NUMBER: 60/083559
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OR FILING DATE: 1998-06-10
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OR APPLICATION NUMBER: 60/088976
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                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: PAGANO, M.
APPLICANT: PAGANO, M.
TITLE OF INVENTION: METHODS TO IDENTIFY COMPOUNDS USEFUL FOR THE TREATMENT
TITLE OF INVENTION: PROLIFERATIVE AND DIFFERENTIATIVE DISORDERS
FILE REFERENCE: 5914-090-999
                                                                         SOFTWARE: Patentin Ver. SEQ ID NO 37
                                                                                                                                                                                                                                                               Sequence 37, Application US/10042417 Patent No. US20020123082A1
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Best Local Similarity
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                                                                                                                                                   CURRENT FILING DATE: 2002-01-07
                                                                                                                       PRIOR APPLICATION NUMBER: 60/260,179 PRIOR FILING DATE: 2001-01-5
                                                                                                        NUMBER OF SEQ ID NOS: 89
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                           ORGANISM: Homo sapiens
NAME/KEY: modified_base
                                               TYPE:
                FEATURE:
                                                            ENGTH:
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Pred. No. 1.7e-23;
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US-09-960-352-1269
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; LENGTH: 288
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-873-14
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GENERAL INFORMATION:
APPLICANT: Mairen, Wesley C.
APPLICANT: Tao, Nengbing
APPLICANT: Byatt, John C.
APPLICANT: Byatt, John C.
APPLICANT: Mathialagan, Nagappan
APPLICANT: Mathialagan, Nagappan
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION
TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
FILE REFERENCE: 16511.006/37-21(10298)C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
APPLICANT: ROSen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PTZ01
                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 110; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: PatentIn Ver. 2.0 SEQ ID NO 14
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Patent No. US20020151479A1
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Best Local Similarity
                                                                                                                                           Sequence 1269, Application US/09960352 Patent No. US20020137139A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/09/764,873
CURRENT FILING DATE: 2001-01-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Prior application data removed NUMBER OF SEQ ID NOS: 18
                                                                                                                                                                                                                                               311 TCCTGCTCAAGTTTTTCTNCGNGTTCCTCGGTCTCATCTTCCTTCCTGGAGCTGGC 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    191
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                                                                                                                                                                                                                                                                                                                   Н
                                                                                                                                                                                                                                                                                                                   AGAAGGTGCACTATTATAGATACTCTAACGCCAAGGTCAGCTGCTGGTACAAGTACCTCC 60
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Pred. No. 2.8e-21;
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Pred. No. 6.3e-20;
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APPLICANT: Wang, Tongtong
APPLICANT: McNeill, Patricia D.
APPLICANT: Watanabe, Yoshihiro
APPLICANT: Watanabe, Yoshihiro
APPLICANT: Henderson, Robert A.
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.539
CURRENT APPLICATION UNMBER: US/09/895,828
CURRENT FILING DATE: 2001-06-28
NUMBER OF SEQ ID NOS: 473
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CURRENT FILING DATE: 2001-09-24
NUMBER OF SEQ ID NOS: 15112
SEQ ID NO 1269
LENGTH: 441
TYPE: DNA
ORGANISM: Bos taurus
OTHER INFORMATION: Clone ID: 06-LIB3058-036-Q1-K1-B5
US-09-960-352-1269
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                                                   ; OTHER INFORMATION: n = US-09-895-828-318
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                                                                                                                                                                        SOFTWARE: FastSEQ for Windows Version SEQ ID NO 318
LENGTH: 547
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                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 318, Application US/09895828 Patent No. US20020099012A1
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                  Query Match
                                                                                                    NAME/KEY: misc_feature
                                                                                                                        FEATURE:
                                                                                                                                       ORGANISM: Homo sapiens
                                                                                      LOCATION: 4, 5
                                                                                                                                                           TYPE: DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATCGCGGTCCTTTCTGTTGGACTATGGCTCCGATTCGACTCGCAGACCAAGAGCATCTTC
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51.6%;
5.0%;
53.1%;
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Score
Pred.
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Pred. No. 4.4e-10;
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 69.8;
No. 1.
8; DB 10;
1.9e-09;
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Best Local Similarity

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CURRENT APPLICATION NUMBER: US/09/880,107
CURRENT FILING DATE: 2001-06-14
PRIOR APPLICATION NUMBER: US 60/211,379
PRIOR FILING DATE: 2000-06-14
PRIOR APPLICATION NUMBER: US 60/237,054
PRIOR FILING DATE: 2000-10-02
NUMBER OF SEQ ID NOS: 3950
SOFTWARE: PATENTIN VET. 2.1
SEQ ID NO 2351
SEQ ID NO 2351
LENGTH: 1192
                                                                                                                                                                                                                                           ; OTHER INFORMATION: Genbank Accession No. US20020142981A1 M38690 US-09-880-107-2351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 14
US-09-880-107-2351
; Sequence 2351, Application US/09880107
; Patent No. US20020142981A1
                                                                                                                                                                                                       Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Horne,
APPLICANT: Vockle
APPLICANT: Scherf
APPLICANT: Gene L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Gene Logic, Inc.
TITLE OF INVENTION: Gene Expression Profiles
FILE REFERENCE: 44921-5028-WO
                                                                                                                                                                                                                                                                                     ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                            TYPE: DNA
         186
                            216 CACCAAAGTGACCCGGATGCATG-----GAATCGACCCTGTGGTGCTGGTCCTGAT---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    447
                                                                                                                                     96 AGTCAGCTGCTGGTACAAGTACCTCCTTTTCAGCTACAACATCATCTTCTGGTTGGCTGG 155
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              216 CACCAAAGTGACCCGGATGCATG-----GAATCGACCCTGTGGTGCTGGTCCTGAT---
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                                                                                                                     66 AGGCACCAAGTGCATCAAATACCTGCTGTTCGGATTTAACTTCATCTTCTGGCTTGCCGG 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    116
                                                                                                                                                                                  Local Similarity 53.1 ses 199; Conservative
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 CGAGCAAGAAACTAATAATAATTCCAGCTTCTACACAGGAGTCTATATTCTGATCGG
                                                                               AGTTGTCTTCCTTGGAGTCGGGCTGTGGGCATGGAGCGAAAAAGGGTGTGCTGTCCGACCT 215
                                                           GATTGCTGTCCTTGCCATTGGACTATGGCTCCGATTCGACTCTCAGACCAAGAGCATCTT
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Scherf, Uwe
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                                                                                                                                                                                             Score 69.8; DB 10;
Pred. No. 2.7e-09;
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                                                                                                                                                                                  Mismatches 167;
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LENGTH: 1219
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APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Homo
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Sequence 421, Application US/09822830A Patent No. US20020142952A1
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APPLICANT: Gulukota, Kamalakar
APPLICANT: Grahan, James R.
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING NOVEL SECRETED PROTEINS
FILE REFERENCE: GIN 6402
CURRENT APPLICATION NUMBER: US/09/822,830A
CURRENT FILING DATE: 2001-03-29
PRIOR APPLICATION NUMBER: 60/195,604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 2000-04-06
NUMBER OF SEQ ID NOS: 631
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Genetics Institute,
                                      387 TGTGGCCGTGCCTTCCTGTTCCAGGACTGGGTGAGGGACCGGTTCCGGGAGTTCTT
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                                                                                        CCAGTGCATGCTGGGACTGTTCTTCGGCTTCCTTTGGTGATATTCGCCATTGAAATAGC
                                                                                                                TATCTGCTTGCTCAACTTTTTCTGTGGCACCATCGTGCTCATCTTCTTCCTGGAGCTGGC
                                                                                                                                                                                                                       GGTGGGCGTGGTGATGTTCACCCTGGGGTTCGCCGGCTGCGGGGGGCTCTGCGGGAGAA 326
TGCGGCCATCTGGGGATATTCCCACAAGGATGAGGTGATTAAGGAAGTCCAGGAGTTTTA
                                                                                                                                                                              AGCCGGCCCTCATGATGCTGGTGGGCTTCCTGGGCTGCTGCGGGGCTGTGCAGGAGTC
                                                                                                                                                                                                                                                                       CGAGCAAGAAACTAATAATAATTCCAGCTTCTACACAGGAGTCTATATTCTGATCGG
                                                                                                                                                                                                                                                                                                                  CACCAAAGTGACCCGGATGCATG-----GAATCGACCCTGTGGTGCTGGTCCTGAT---
                                                                                                                                                                                                                                                                                                                                                                  GATTGCTGTCCTTGCCATTGGACTATGGCTCCGATTCGACTCTCAGACCAAGAGCATCTT
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Agostino, Michael J.
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Qy 447 CGAGAGCAACATCAA 461
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Db 475 CAAGGACCCTACAA 489

Search completed: December 19, 2002, 06:22:12
Job time: 177 secs

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Command line parameters:
-MODEL-frame+_p2n.model -DEV=xlh
-Q-/cgn2_1/USPT0_spool/US09905674/runat_16122002_111845_6756/app_query.fasta_1.455
-Q--/cgn2_1/USPT0_spool/US09905674/runat_16122002_111845_6756/app_query.fasta_1.455
-DE-GENERD1 -QFMT-fastap -SUFFIX=yge -MINMATCH=0.1 -LOODECL=0 -LOODEXT=0
-UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-DCCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15 -MODE-LOCAL
-UNITSTD-to -NORM-ext -HEAPSIZE=500 -MINLEN=0 -MAXIEN=2000000000
-USER=US09905674_eCGN_1_1.1615_erunat_16122002_111845_6756 -NCPU=6 -ICPU=3
-NO_XLPXY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OM protein - nucleic search, using frame_plus_p2n model
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Xgapop 10.0 , Xgapext
Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
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Copyright (c) 1993 - 2002 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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Submitted (06-OCT-2000) Department of Immunology, Second Military Medical University & Shanghai Brilliance Biotechnology Institute, Medical University & Shanghai 200433, P.R.China Location/Qualifiers 2 (bases 1 to 2553) Zhang, W., Li, N., Wan Zhang, W., Li, N., Wan, T. Identification of novel Homo sapiens Homo sapiens AF311903 Unpublished 1 (bases 1 to 2553) Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates; 505 ø /product="DC-TM4F2 precursor"
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KGCIQALESWLPRNIYIVAGVFIAISLLQIFGIFLARTLISDIEAVKAGHHF" 73. .885 /codon\_start=1 /organism="Homo sapiens" /db\_xref="taxon:9606" 1.4e-153 1449.00 100.00% 100.00% 100.00% GI:22266721 2553 bp mRN DC-TM4F2 precursor, mRNA, 724 c Wan, T. and 680 g (1-2553)and Cao, X.
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                                                              Ingolstaedter Landstr. 1, 85764 Neuherberg, Germany Clone from S. Wiemann, Molecular Genome Analysis, German CResearch Center (DKF2); Email s.wiemann@dkfz-heidelberg.desequenced by DKF2 (German Cancer Research Center, Heidelberg/Germany) within the cDNA sequencing consortium German Genome Project.
Berlin-Charlottenburg, GERMANY; information about the clone and at http://mips.gsf.de/proj/cDNA/
                                       This clone (DKFZp564B1037) is available at the Please contact the RZPD: Ressourcenzentrum, Hev
                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 2556)
Poustka_A., Klein,M., Mewes,H.W., Gassenhuber,J. and Wiemann,S.
                                                                                                                             Submitted (10-JUL-2002) GSF, Institut fuer Bioinformatik MIPS, Ingolstaedter Landstr. 1, 85764 Neuherberg, Germany
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                                                                       TrpSerGluLysGlyValLeuSerAspLeuThrLysValThrArgMetHisGlyIleAsp
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                                      GlnAsnLeuIleAspSerLeuGlnLysAlaAsnGlnCysCysGlyAlaTyrGlyProGlu
                                                                                                                        AspTrpAspLeuAsnValTyrPheAsnCysSerGlyAlaSerTyrSerArgGluLysCys
                         CAAAACGTCATCGACTCCCTTCAGAAAGCTAACCAGTGCTGTGGCGCATATGGCCCTGAA
                                                                                                                                                                                                                                      ProValValLeuValLeuMetValGlyValValMetPheThrLeuGlyPheAlaGlyCys
                                                                                                                                                                                                                                                                                                                                  SerTyrAsnIleIlePheTrpLeuAlaGlyValValPheLeuGlyValGlyLeuTrpAla
                                                                                                                                                                                                                                                                        TGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAAGTGACCCGGATGCATGGAATCGAC
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GYLSDLTKVTRHGIDPVVLVLMVGVVMETLGFAGCVGALRENICLLMPFCGTIVLIF

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DWDLNVYFNCSGASYSREKCGVPFSCCVPDPAQKVVNTQCGYDVRIQLKSKWDESIFT

KGCIQALESWLPRNIYIVAGVFIAISLLQIFGIFLARTLISDIEAVKAGRHF"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /clone="DKFZp564B1037"
/tissue_type="brain"
/clone_lib="564 (synonym: hfi
X1-2blue; sites NotI + SalI"
/dev_stage="fetal"
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729 c 683 g
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/protein_id="CAB66573."
/db_xref="GI:12052802"
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/db_xref="taxon:9606"
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BC025568.1
MGC.
                                                                           Clone distribution: MGC clone distribution informat through the I.M.A.G.E. Consortium/LINI at: http://i Series: IRAK Plate: 56 Row: j Column: 21 This clone was selected for full length sequencing passed the following selection criteria: GenomeScar
                                                                                                                                                                    Contact: nisc_mgc@nhgri.nih.gov

Akhter,N., Ayele,K., Beckstrom-Sternberg,S.M., Benjamin,B.,
Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
Hansen,N., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaspi,R.,
Maduro,C.L., Masiello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.W.,
Tsurgeon,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
Young,A., Zhang,L.-H. and Green,E.D.
                                                                                                                                                                                                                                                                                                                                               cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: National Institutes of Health Intramur. Sequencing Center (NISC),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted (06-MAR-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                               NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs-rémail.nih.gov
Tissue Procurement: Jeffrey Green M.D.
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/organism="Mus musculus"
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Similar to region containing hypothetical protein
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GlyTyrAspValArgIleGlnLeuLysSerLysTrpAspGluSerIlePheThrLysGly
                                                                                                                                                                                                                                                                    CAGAACCTCATTGACTCCCTTCAGAAAGCTAATCAGTGCTGCGGGGCTTACGGCCCTGAA
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                                                                          GGGGTACCCTTCTCCTGCTGTGTGCCAGATCCTGCACAAAAAGTCGTGAACACACAGTGT
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GVLSDLTKVTRLHGIDPVLVLWWGVVNFTLGFAGCVGALFENICLLKEFCGAIVLIF
FLELAVAVLAFLFQDWFDDFREFFESNIKSYFDDIDLQNLIDSLQKANQCCGAYGPE
DWDLAVYFNCSGASYSREKGGVPFSCCVPDPAQKVVNTQCGYDYRIQLKSKWDEFIFT
KGCIQALEGWLFRNIYIVAGVFIAISLLQIFGIFLARTLISDIBAVKAGHHF"

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/clone="MGC:36595 IMAGE:5322531"
/tissue_type="Mammary tumor. C3(1)-Tag model.
ductal carcinoma. 5 month old virgin mouse."
/clone_lib="NCI_CGAP_Mam6"
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through
Series:
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MGC11352;
                                                                                                                                                                                                                  passed the following selection criteria: GenomeScan prediction, Similarity but not identity to protein.
                                                                                                                                                                                                                                                                                                                                     Contact: amg@bcm.tmc.edu
Gunaratne, P.H., Garcia, A.M., Lu,
Gunor, V.S., Kowis, C.R., Lawrence,
                                                                                                                                                                                                                                                                                                                                                                                                     Contact: MGC help desk
Email: cgapbs-remail.nih.gov
Tissue Procurement: Jeffrey E. Green, M.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (
DNA Sequencing by: Baylor College of Medicine Human
Sequencing Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Submitted (01-MAR-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20092-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            USA
NIH-MGC Project URL: http://mgc.nci.nih.gov
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
1 (bases 1 to 2498)
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/translation="MHYYRYSNAEVSCWYKYLLESYNIVFWLAGVVFLGVGLWAWSEK
GVLSDLTKVTRLHGIDPVVLVLMVGVVMFTLGFAGCVGALRENICLLKFFCGAIVLIF
                          /product="Similar to region containing
protein MGC11352; Slingshot"
/protein_id="AAH246111"
/db_xref="GI:19354054"
                                                                                          /note="Vector: 55. .867
                                                                                                                  /clone="MGC:28503 IMAGE:4188261"
/tlssue_type="Salivary gland, 10
/clone_lib="NCI_CGAP_SG2"
/lab_host="DH10B"
                                                                                                                                                                    /map="FVB/N"
                                                                                                                                                                                /organism="Mus musculus"
/db_xref="taxon:10090"
                                                                               /codon_start=1
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DWDLNVFNCSGASYSBEKCGVPFSCCVPDPAQKVVNTQCGYDVBIQLKSKWDEFIFT
KGCIQALEGWLPRNIYIVAGVETAISLLQIFGIFLARTLISDIEAVKAGHHF"

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ATGCACTATTATAGATACTCGAACGCCGAGGTCAGCTGCTGCTGCTACAAGTACCTGCTCTTC
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This clone was selected for full length sequencing because it passed the following selection criteria: GenomeScan gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Sequencing Group at the Stanford Human Center, Stanford University School of Medicine, Stanford, wheb site: http://www-shgc.stanford.edu Contact: (Dickson, Mark) mod@paxil.stanford.edu Dickson, M., Schmutz, J., Grimwood, J., Rodriquez, A., and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs-r@nail.nih.gov
Tissue Procurement: Jeffrey Green M.D.
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Mus musculus, clone MGC:36554
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    /clone="MGC:36554 IMAGE:4954874"
/tissue_type="Mammary tumor. C3(1)-Tag model.
ductal carcinoma. 5 month old virgin mouse."
/clone_lib="NCI_CGAP_Mam6"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                               /translation="MHYYRYSNAEVSCWYKYLLFSYNIVFWLAGVVFLGVGLWAWSEK
GVLSDLTKVTKLHGIDPVVLVLWVGVVWFTLGFAGCVGALRENICLLKFFCGAIVLIF
FLELAVALAFLFODWYLDKFREFESSNIKSYRDDIDLOXLDSLDKANGCCGAYPE
DWDLNVYFNCSGASYSREKCGYPFSCCVPDPAQKVVNTQCGYDVRIQLKSKWDEFIFT
                                                                                                                                                                                                                                                                                                                                                   /product="Unknown (protein for MGC:36554)"
/protein_id="AAH26574.1"
/db_xref="GI:20072353"
                                                                                                                                                                                                                                                                                                                                                                                                   /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                      /note="Vector:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism="Mus musculus"
/db_xref="taxon:10090"
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                             Submitted (05-FEB-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                BC002920 pmRNA linear From Sapiens, Similar to transmembrane 4 superfamily clone MGC:11352 IMAGE:3954042, mRNA, complete cds.
                                                                            Direct Submission
                                                                                         Strausberg, R.
                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                    BC002920.1
NIH-MGC Project URL: http://mgc.nci.nih.gov
                                                                                                                        Mammalia;
                                                                                                                                          Eukaryota;
                                                                                                                                                                         Homo sapiens
                                                                                                         (bases 1 to 2502)
                                                                                                                         ; Metazoa;
Eutheria;
                                                                                                                                                                                                      GI:12804132
                                                                                                                        Chordata; Craniata; Vertebrata; Euteleostomi; Primates; Catarrhini; Hominidae; Homo.
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ValGlyAlaLeuArgGluAsnIleCysLeuLeuAsnPhePheCysGlyThrIleValLeu
                                                                                                                                                                                AGCTACAACATCATCTTCTGG---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Web site: http://www.nisc.nih.gov/
Contact: nisc_mgc@nhgri.nih.gov/
Shevchenko,Y., Wetherby,K.D., Beckstrom-Sternberg,S.M.,
Benjamin,B., Blakesley,R.W., Bouffard,G.G., Brinkley,C., Brooks,S.,
Benjamin,B., Blakesley,R.W., Bouffard,G.G., Karlins,E., Legaspi,R.,
Dietrich,N.L., Guan,X., Gupta,J., Ho,S.-L., Karlins,E., Legaspi,R.,
Lim,M., Maduro,Q.L., Mastello,C., Mastrian,S.D., McCloskey,J.C.,
McDowell,J., Pearson,R., Snyder,B., Stantripop,S., Thomas,P.J.,
Tiongson,E.E., Touchman,J.W., Tsurgeon,C., Vogt,J.L., Walker,M.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: http://lnage.llnl.gov Series: IRAL Plate: 15 Row: e Column: 10
This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, Similarity but not identity to protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA Sequencing by: National Institutes of Health Intramural Sequencing Center (NISC), Gaithersburg, Maryland;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="MGC:11352 IMAGE:3954042"
/tissue_type="Skin, melanotic melanoma.
/clone_lib="NIH_MGC_20"
/lab_host="DH10B-R"
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                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                     VERSION
                                                                                                                                                                                                            JOURNAL
MEDLINE
PUBMED
                                                                                                                                                             JOURNAL
                                                                                                                                                                          TITLE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IleGluAlaValLysAlaGlyHisHisPhe 270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IleAlaIleSerLeuLeuGlnIlePheGlyIlePheLeuAlaArgThrLeuIleSerAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGATATGATGTCAGGATTCAGCTGAAGAGCAAGTGGGATGAGTCCATCTTCACGAAAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGGGTCCCCTTCTCCTGCTGCGTGCCAGATCCTGCGCAAAAAGTTGTGAACACACAGTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                           ATCGAGGCAGTGAAGGCCGGCCATCACTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1405 bp
Homo sapiens tetraspan NET-4 mRNA,
AF065389
AF065389.1 GI:3152702
                                                                                                                                                                                                                                                                       Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
1 (bases 1 to 1405)
                                                                                                                                                                                                                         Serru, V., Dessen, P., Boucheix, C. and Rubinstein, E. Sequence and expression of seven new tetraspans Biochim. Biophys. Acta 1478 (1), 159-163 (2000) 20185353
                                                                                                                                                  Submitted (14-MAY-1998) INSERM U268, Villejuif 94807, France
                                                                                                                                                                          Direct Submission
                                                                                                                                                                                   Rubinstein, E.,
                                                                                                                                                                                                               10719184
                                                                                                                                                                                                (bases 1 to 1405)
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/db_xref="GI:3152703"
/translation="MSGKHYKGPEVSCCIKYFIFGFNVIFWFLGITFLGIGLWAWNEK
                                                                                   /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE ID 219547"
                                                                                                                                    Location/Qualifiers
                                                 /codon_start=1
                                                             /note="similar to Tspan-5;
                                                                                                                                                                                      Serru, V.
                                                                                                                                                                                      and Boucheix, C.
                                                                                                                                                                                                                                                                                                                                                                                                                                              821
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                                                               TM4SF"
                                                                                                                                                                14 av
                                                                                                                                                                                                                                                                                         Hominidae;
                                                                                                                                                                Paul Vaillant Couturier
                                                                                                                                                                                                                                                                                                                                                                                           linear
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BASE CONTIGIN

COUNT

No.:

Euteleostomi;

Homo

PRI 29-OCT-2001 clone MGC:9300

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US-09-905-674-2 (1-270) x AF065389 (1-1405)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           363 TACAAGGGTCCTGAAGTCAGTTGTTGCATCAAATACTTCATATTTGGCTTCAATGTCATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             46 ValLeuSerAspLeuThrLysValThrArgMetHisGlyIleAspProValValLeuVal 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 TyrSerAsnAlaLysValSerCysTrpTyrLysTyrLeuLeuPheSerTyrAsnIleIle
                                                                                                             CTGCAGATATTTGGGATATGCCTGGCCCCAGAATTTGGTTAGCGATATCGAAGCTGTCAGG
                                                                                                                                     LeuGlnIlePheGlyIlePheLeuAlaArgThrLeuIleSerAspIleGluAlaValLys
                                                                                                                                                                                               GAGAAGTGGTTGCAGGACAATTTAACCATCGTTGCTGGTATTTTCATAGGCATTGCATTG
                                                                                                                                                                                                                      GluSerTrpLeuProArgAsnIleTyrIleValAlaGlyValPheIleAlaIleSerLeu
                                                                                                                                                                                                                                                                                CAAAAACCAGAAGTTGACCAGCAGATTGTAATCTACACGAAAGGCTGTGTGCCCCCAGTTT
                                                                                                                                                                                                                                                                                                               IleGlnLeuLysSerLysTrpAspGluSerIlePheThrLysGlyCysIleGlnAlaLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTTTGGTTTTTGGGAATAACATTTCTTGGAATTGGACTGTGGGCATGGAATGAAAAAGGA
                                                                                                                                                                                                                                                                                                                                                                                             CysCysValProAspProAlaGlnLysValValAsnThrGlnCysGlyTyrAspValArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTTACTTCAATTGCACAGATTCCAATGCAAGTCGAGAGCGATGTGGCGTTCCATTCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ValTyrPheAsnCysSerGlyAlaSerTyrSerArgGluLysCysGlyValProPheSer 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SerLeuGlnLysAlaAsnGlnCysCysGlyAlaTyrGlyProGluAspTrpAspLeuAsn 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PhePheGluSerAsnIleLysSerTyrArgAspAspIleAspLeuGlnAsnLeuIleAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTCACTGCCGGAGTTCTAGCATTTGTTTTCAAAGACTGGATCAAAGACCAGCTGTATTTC 722
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTTCTGTCCAACATCTCTTCCATCACCGATCTCGGCGGCTTTGACCCAGTTTGGCTCTTC
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FLELTAGVLAFVFKDWIKDQLXFFINNNIRAYRDDIDLQNLIDETQEYWQCCGAFGAD
DWNLNIYFNCTDSNASRERGGVPFSCCTKDPAEDVINTQCGYDARQKPEVDQQIVIYT
KGCVPQFEKWLQDNLTIVAGIFIGIALLQIFGICLAQNLVSDIEAVRASW"
357 c 387 g 352 t
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867.00
76.25%
59.00%
59.83%
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Conservative:
Mismatches:
Indels:
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COMMENT
                                                                                       US-09-905-674-2
                                                                                                                                                   Query
                                                                                                                                                                                                                                                         Alignment
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AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KEYWORDS
SOURCE
ORGANISM
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                                                                                                                                                                                                                                   No.:
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    349
                                                                                                                                                     Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                          δ
                      TyrSerAsnAlaLysValSerCysTrpTyrLysTyrLeuLeuPheSerTyrAsnIleIle
TACAAGGGTCCTGAAGTCAGTTGTTGCATCAAATACTTCATATTTTGGCTTCAATGTCATA
                                                                                                                                                                                                                                                            Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Clone distribution: MGC clone distribution information can be through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.geries: IRAK Plate: 14 Row: h Column: 4
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA g1: 315: location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Sequencing Group at the Stanford Human Center, Stanford University School of Medicine, Stanford, Center, Stanford, Education of Medicine, Stanford, Meb site: http://www-shgc.stanford.educontact: (Dickson, Mark) mcd@paxil.stanford.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NIH-MGC Project URL: http://mgc.nci.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Direct Submission
Submitted (29-JUN-2001) National Institutes of Health, Mammalian Submitted (29-JUN-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: MGC help desk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Strausberg, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates; 1 (bases 1 to 1416)
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                                                                                    (1-270)
                                                                                                                                                                                                                                                                                                                          325
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                                                                                                                                                                                                                                                                                                                   /product="transmembrane 4 superfamily member 9"
/protein_id="AAH09704.1"
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KGCVPQFEKWLDDNLTIVAGIFIGIALLQIFGICLAQNLVSDIEAVRASW"
a 354 c 385 g 352 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note="Vector:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /tissue_type="Pancreas,
/clone_lib="NIH_MGC_70"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /organism="Homo sapiens"
/db_xref="LocusID:56224"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /clone="MGC:9300 IMAGE:3895933"
                                                                                  x BC009704 (1-1416)
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867.00
76.25%
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .1140
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                                                                                                                                            Matches:
Conservative:
Mismatches:
Indels:
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Α.,

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Mus musculus

Ekkaryota; Metazoa; Chordata; Cr
Mammalia; Eutheria; Rodentia; Sc
1 (bases 1 to 3175)

Garcia-Frigola,C., de Lecea,L. a
Mouse Tspan-5 CDNA cloning
Unpublished
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AF121344
AF121344.1 G
Direct Submission
Direct Submission
Submitted (20-JAN-1999) Dept. of Animal and Plant
Submitted (20-JAN-1999) Av. Diagonal 645, Barcelo
                                       2 (bases 1 to 3175)
Garcia-Frigola, C., d
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Sciurognathi; Muridae;
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ona 08028, Spain
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                                              CysCysValProAspProAlaGlnLysValValAsnThrGlnCysGlyTyrAspValArg
                                                                                                           ValTyrPheAsnCysSerGlyAlaSerTyrSerArgGluLysCysGlyValProPheSer
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                                                                                           ATTTACTTCAATTGCACAGATTCCAATGCAAGCCGAGAGCGATGCGGTGTGCCATTTTCC
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/product="tetraspanin Tspan-5"
/product="de" AAF28869.1"
/protein_id="AAF28869.1"
/db_xref="GI-841033"
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/db_xref="GI-841033"
/translation="MSGKHYKGPEVSCCIKYFIFGFNVIFWFLGITFLEGIGLWAWNEK
GVLSNISSITDLGGFDPVWLFLVVGGVMFILGFAGCIGALRENTFLLKFFSVFLGIIF
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DWNLNIYFNCTDSNASRERGGVPFSCCTKDFAEDVINTQCGYDARQKPEVDQIVIYT
KGCVPQFFKWLDDNLTIVAGIFIGIALLQIFGICLAQNLVSDIEAVRASW"
a 811 c 840 g 857 t
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/codon_start=1
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/strain="Swiss Webster/NIH"
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BC010346.1
MGC.
                                                                                                                                                                                                                                                                                               Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAK Plate: 5 Row: f Column: 18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs-remail.nih.gov
Tissue Procurement: Lothar Hennighausen Ph.D., Robin Hump
CDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Baylor College of Medicine Human Genom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (05-JUL-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                     Contact: amg@bcm.tmc.edu
Gunaratne, P.H., Garcia, A.M., Lu,
Yoon, V.S., Kowis, C.R., Lawrence,
Richards, S., Gibbs, R.A.
                                                                                                                                                                                                                                                                                                                                                                                                             Web site: http://www.hgsc.bcm.tmc.edu/cdna/
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
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Mus musculus, RIKEN cDNA 2210021G21 gene,
IMAGE:2811935, mRNA, complete cds.
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RAK Plate: 5 Row: f Column: 18
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Location/Qualifiers
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Patent: WO 0216603-A 3 28-FEB-2002;
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                                                                                   GluLysGlyValLeuSerAspLeuThrLysValThrArgMetHisGlyIleAspProVal
AlaLeuArgGluAsnIleCysLeuLeuAsnPhePheCysGlyThrIleValLeuIlePhe
                                                                                                                                    AsnIleIlePheTrpLeuAlaGlyValValPheLeuGlyValGlyLeuTrpAlaTrpSer
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                                                                                                                      AACATTGTCTTCTGGGTGCTGGGAGCCCTGTTCCTGGCCTATCGGCCTCTGGGCCTGGGGT
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Mammalia; Eutheria;
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Todd, S.C., Doctor, V.S. and Levy, S. Sequences and expression of six new members tetraspanin/TM4SF family
                                                                                                                       Submitted (12-MAR-1998) Medicine, Stanford, CA 94305, USA
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Homo sapiens tetraspan
AF053455
                                                                                                                                             Direct Submission
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Todd, S.C., Doctor, V.S.
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                                                                                                                                                                                                                                                                                                                                                                                           GluAsnIleCysLeuLeuAsnPhePheCysGlyThrIleValLeuIlePhePheLeuGlu
  Ala
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-ATTATTTTCTTCCTGGAG

145 714 125 654 105 909

1014

225 954 205 894 185

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US-09-905-674-2 (1-270) x AF053455 (1-1408)
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Best Local Similarity:
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Best Local Similarity:
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                                                             US-09-905-674-2 (1-270) x BC010405 (1-2426)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLML at: http://image.llnl.gov Series: IRAL Plate: 24 Row: k Column: 15
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 10440362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Direct Submission
Submitted (09-JUL-2001) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    http://www.systemsbiology.org
contact: amadan@systemsbiology.org
anup Madan, Rachel Dickhoff, Jessica Fahey, Stephanie Ford,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cDNA Library Preparation: Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Consortium DNA Sequencing by: Institute for Systems Biology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
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PNUWNLNIYFNCTDLNFSRERCGVFFSCCVRDPAEDVLNTQGSYDVRLKLELEQQGFI
HTKGCVGQFEKWLQDNLIVVAGVFMGIALLQIFGICLAQNLEQME"
a 662 c 716 g 541 t
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/db_xref="taxon:9606"
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Matches:
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Mismatches:
Indels:
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                                                    GlnAlaLeuGluSerTrpLeuProArgAsnIleTyrIleValAlaGlyValPheIleAla 242
                                                                                                                                                                                                                CCCTTCTCCTGCTGCGGCACGGGACCCTGCGGAGGATGTCCTCAACACCCCAGTGTGCGCTAC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AlaLeuArgGluAsnIleCysLeuLeuAsnPhePheCysGlyThrIleValLeuIlePhe 102
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CACCAGCATTTCCAGGAACCTGAGGTCGGCTGCTGCGGGAAATACTTCCTGTTTGGCTTC
TGATGACTTTGAAAACCACTGGCTTACGCCCACCATTTC
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                          -AlaValLysAlaGlyHisHisPhe
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Search completed: December 19, 2002, 07:10:36 Job time: 2604 secs

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GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.
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-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
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Delop 6.0 , Delext
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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## ALIGNMENTS

REFERENCE AUTHORS TITLE		ORGANISM	SOURCE	KEYWORDS	VERSION	ACCESSION		DEFINITION	LOCUS	BQ212057	RESULT 1
<pre>1 (bases 1 to 899) NIH-MGC http://mgc.nci.nih.gov/. National Institutes of Health, Mammalian Gene Collection (MGC)</pre>	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	Homo sapiens	human.	EST.	BQ212057.1 GI:20391921	BQ212057	5', mRNA sequence.	AGENCOURT_7594385 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:6061320	BQ212057 899 bp mRNA linear EST 02-MAY-2002		

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Contact: Robert Strausberg, Ph.D.
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC/DCTD/DTP
CDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
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Location/Qualifiers
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/lab_host="DH10B (phage-resistant)"
/note="Organ: skin; Vector: pCMV-SPORT6;
Site_2: Sall; Cloned unidirectionally. P
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Tissue Procurement: Life Technologies,
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
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AGENCOURT_6625806 NIH_MGC_116
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Location/Qualifiers
                                                     /note="Organ: pooled colon, kidney, stomach; Vector: pCMV-SPORTS; Site_1: NotI; Site_2: EcoRV (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of stomachs, 62 yo male and 70 yo female. Library is oligo-dr primed and directionally cloned (EcoRV site is cligo-dr primed and directionally cloned (EcoRV site is oligo-dr primed and described for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetic tracking code 023. Note: this is a NIH_MCC Library."
                                                                                                                                                                                                                                                                                                                            /db_xref="taxon:9606"
/clone="IMAGE:5758901"
/clone_lib="NIH_MGC_116"
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High quality sequence stop: 821.
Location/Qualifiers
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Email: cgapbs-r@mail.nih.gov
Tissue Procurement: James Cleaver,
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National Institutes of Health, 1
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/Clone_lib="NCI_CGAP_Skn3"
/Clone_lib="NCI_CGAP_Skn3"
//Lab_host="DH10B_(T1_phage-resistant)"
/note="Organ: skin; Vector: pCMV-SPORT6; Site_1: NotI;
/note="Organ: skin; Vector: pCMV-SPORT6; Site_1: NotE;
/note="Organ: skin; Vector: pCMV-SPORT6; Site_1: Note: Note: this is a NCI_CGAP_Library."

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/db_xref="taxon:9606"
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Contact: Robert Strausberg, Ph.D.
Email: Ggapbs remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LINL at:
http://image.llnl.gov
Plate: LLAM12784 row: c column: 14
High quality Sequence stop: 587.
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1 (bases 1 to 1125)

NIH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)
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                                                                   /note="Organ: pooled brain, lung, testis; Vector: pCMV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA source anonymous pool of 6 male brains, age range 23-27; 1 male lung, age 27; and 1 male brains, age 69. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.8 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 021. Note: this is a NIH_MGC Library."
                                                                                                                                                                                                                                 /organism="Homo sapiens"
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/clone_lib="NIH_MGC_115"
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Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ArCC
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM1759 row: d column: 03
High quality sequence stop: 786.
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National Institutes of Health, Mammalian Gene Collection (MGC)
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/clone_lib="NIH_MGC_43"
/clone_lib="NIH_MGC_43"
/tlssue_type="normal pigmented retinal epithelium"
/lab_host="DH10B (phage=resistant)"
/note="Organ: eye; Vector: pOTB7; Site_1: xhoI; Site_2:
FOCRI; CDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5;
adaptor: GGCACGAG(8). Library constructed by Ling Hong
in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-CDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MCC_Library. | "
Note: this is a NIH_MCC_Library. | "
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/db_xref="taxon:9606"
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Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM11570 row: o column: 17
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Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
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National Institutes of Health, Mammalian
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source anonymous pool of spleen and pancreas from 28 yo male. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.5 kb, insert size range 1-2.5 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 025. Note: this is a NIH_MGC Library."
                                                                                                                     /lab_nost="univo"
/note="Organ: pooled pancreas and spleen; Vector:
pCMV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed);
pCMV-SPORT6; Site_1 of spleen and pancreas from 28 y
                                                                                                                                                                                                              /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5226856"
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                                                                                                                   CGGAACATTTACATTGTGGCTGGCGTCTTCAATCGCCAATCTCGCTGTTGCAGATATTTG
         BI905852
603062939F1 NIH_MGC_118
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  {\tt IlePhePheLeuGluLeuAlaValAlaValLeuAlaPheLeuPheGlnAspTrpValArg}
                                                                                       ValGlyAlaLeuArgGluAsnIleCysLeuLeuAsnPhePheCysGlyThrIleValLeu
                                                                                                                                                                        CCTGTGGTGCTGGTCCTGATGGTGGGCGTGGTGATGTTCACCCTGGGGTTCGCCGGCTGC
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Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM11532 row: n column: 10
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National Institutes of Health, Ma
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
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/clone_ilb="NIMGE_118"
/clone_ilb="NIMGE_118"
/tissue_type="leukocyte"
/lab_host="DHIOB"
/lab_host="DHIOB"
/lab_host="DHIOB"
/note="vector: pCMV-SPORT6; Site_1: NotI; Site_2: EcoRV
/note="vector: pCMV-SPORT6; Site_1: NotI; Site_2: PCMV-SPORT6; S
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/db_xref="taxon:9606"
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                                                                                                                                                           Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Jeffrey Green M.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://lmage.llnl.gov
Plate: LLAM1818 row: b column: 04
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603288609F1 NCI_CGAP_Mam6 Mus
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Contact: Robert Strausberg,
                                                                                                                                                                                                                                                                                                                NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
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/sex="female, virgin"
/tissue_Type="infiltrating d
/dev_stage="5 months"
                                                                                                         /organism="Mus musculus"
                                                                                                                                    location/Qualifiers
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Sciurognathi; Muridae;
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Site_2: Not1; Cloned unidirectionally. Primer:
Library constructed by Life Technologies. Invest
providing samples: Jeffrey Green, M.D., NIH"
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BQ572112 742 bp mRNA UI-M-FDO-byd-n-13-0-UI.rl NIH\_BMAP\_FDO

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EST 19-JUN-2002 cDNA clone

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            SerTyrAsnIleIlePheTrpLeuAlaGlyValValPheLeuGlyValGlyLeuTrpAla
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EST.
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Tissue Procurement: Dr. James Lin, Univeristy of Iowa
CDNA Library preparation: Dr. M. Bento Soares, University of Iowa
CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
CDNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
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Contact: Robert Strausberg, Ph.D.
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National Institutes of Health, Mammalian Gene Collection
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
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/clone lib="With BMAP FDO"
/clone lib="With BMAP FDO"
/clone lib="With BMAP FDO"
/dev_stage="embryo 12.5 dpc"
/lab_host="Mill® (TI phage resistant)"
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/clone="IMAGE:5716812"
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Full-length cDNA libraries
Unpublished (2001)
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1 (bases 1 to 951)
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/note="Organ: brain; Vector: pCMVSPORT 6; 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-stranded cDNA was digested with Not I and
                                                                                               /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="CSODB005YG02"
                                          /tissue_type="neuroblastoma cells"
/lab_host="DH10B"
                                                                      /sex="male"
                                                                                   /clone_lib="LTI_NFL004_NBC2"
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Percent Similarity:
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Query Match:
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602811894F1 NCI_CGAP_Brn67
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Email: ggapbs-r@mail.nih.gov
Tissue Procurement: David N. Louis, M.D.
Tissue Procurement: David N. Louis, M.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM10887 row: 1 column: 23
High quality sequence stop: 685.
Location/Qualifiers
                                                                                                                                                                                                                                                                      euIlePhePheLeuGluLeuAlaValAlaValLeuAlaPheLeuPheGlnAspTrpValA
                                                                                                                                                 ATGCACTATTATAGATACTCTAACGCCAAGGTCAGCATGCTGGTACAAGTACCTCCGTTT
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rgAspArgPheArgGluPhePheGluSerAsnIleLysSerTyrArgAspAspIleAspL 140
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                                                                                                       ysValGlyAlaLeuArgGluAsnIleCysLeuLeuAsnPhePheCysGlyThrIleValL 100
                               TCATCTTCTTCCTGGAGCTGGCTGTGGCCGTGCTGGCCTTCCTGTTCCAGGACTGGGTGA
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Contact: Robert St
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National Institutes of Health, Mammalian
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mmalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
(bases 1 to 797)
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/note="Organ: brain; Vector: pCMV-SPORT6; Site_1:
Site_2: Sall; Cloned unidirectionally. Primer: Oli
Average insert size 2.3 kb. Constructed by Life
Technologies. Note: this is a NCI_CGAP Library."
a 211 c 232 g 194 t
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
CNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information car
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2531 row: k column: 09
High quality sequence start: 3
High quality sequence stop: 530.
Location/Qualifiers
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Tissue Procurement: ATCC
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National Institutes of Health, Mammalian
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/Organism="Homo sapiens"
/db_xref="taxon:9606"
/db_xref="taxon:9606"
/clone="IMAGE:6338432"
/clone=lib="NHAMGC:47"
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/lab_host="DH10B (phage-resistant)"
/note="Organ: brain; Vector: poTB7; Site_1: XhoI; Site_2:
footI: CDNA made by oligo-dT priming. Directionally
cloned into EcoRI/KhoI sites using the following 5/
adaptor: GGCACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
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223 c 257 g 214 t 1 others
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                                MetHisTyrTyrArgTyrSerAsnAlaLysValSerCysTrpTyrLysTyrLeuLeuPhe 20
                                                                                               CCTGTGGTGCTGGTCCTGATGGTGGGCGTGGTGATGTTCACCCTGGGGTTCGCCGGCTGC
                                                                                                                   ProValValLeuValLeuMetValGlyValValMetPheThrLeuGlyPheAlaGlyCys
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cDNA Library Preparation: Ling Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) CNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLCM1741 row: k column: 10 High quality sequence stop: 754. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC/DCTD/DTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 755)
NIH-MGC http://mgc.nci.nih.gov/.
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/lab_host="NH10B (phage-resistant)"
/note="Organ: skin; Vector: pOTB7; Site_1: xhoī; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5 adaptor:
GCCACGA6(G). Size-selected >500bp for average insert size
1.8kb. Library constructed by Ling Hong in the laboratory
of Gerald M. Rubin (University of California, Berkeley)
using ZAP-cDNA synthesis kit (Stratagene) and Superscript
II RT (Life Technologies). Note: this is a NIH_MGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Library.
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Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC/DCTD/DTP
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Contact: Robert Strausberg, Ph.D.
Email: ggapbs-r@mail.nih.gov
Tissue Procurement: Lothar Hennighausen
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National Institutes of Health, Mammalian
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-DB=ISSued_Patents_NA -QEMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0
-DB=ISSUEd_Patents_NA -QEMT=fastap -SUFFIX=rni -MINMATCH=0.1 -TRANS=human40.cdi
-LOOPEXT=0 -UNITS=b1ts -START=1 -END=-1 -MARKIX=blosum62 -TRANS=human40.cdi
-LOOPEXT=0 -THR_SCORE-pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE-LOCAL -OUTFMT=pto -NORM-ext -HabSIZE=500 -MINLEN=0 -MAXLEN=200000000
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-NO_KEN_US9905674 -GCGN_1_17 -END=CSCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPDEXT=0.5 -FGAPOP=6 -FGAPEXT=7
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Listing first 45 summaries
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1: /cgn2_6/ptodata/

2: /cgn2_6/ptodata/

3: /cgn2_6/ptodata/
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equence 13, App	2,	equence 12, App	equence 12, App	e 12, App	uence 12, App	equence 12, App	uence 120,	14, App	17, App	17, App	, App	: 17, App	: 17, App	17, App	•	273, Ap	16,	16, App	16, App	e 16, App	e 16,	e 16,	243,	62,	e 6, Appl	: 111, Ap	: 111, Ap	e 111, Ap	e 111, Ap	e 111, Ap	111,	equence

## ALIGNMENTS

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Patent NO. 3000....
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Goli, Surya K.
APPLICANT: Goli, Surya K.
APPLICANT: HOMAN TRANSMEMBRANE 4 SUPERFAMILY
                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                       FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
                                                                                                                                                                                                                                                 OPERATING SYSTEM: DOS
SOFTWARE: FastSEO for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                           STREET: 31/-
CITY: Palo Alto
CTATE: CA
                REFERENCE/DOCKET NUMBER: PF
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
                                                                                                                                                                        CLASSIFICATION: 530 PRIOR APPLICATION DATA:
                                                                                                                                                                                                            APPLICATION NUMBER: U:
FILING DATE: Herewith
                                                                                                                                                        APPLICATION NUMBER:
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5. 5863735
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415-845-4166
                                                                                                                                                                                                                                                                                                            IBM Compatible
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INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:

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TYPE: LENGTH:

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TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: SCORNOTO1
CLONE: 663655
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                                                                                    IleGlnLeuLysSerLysTrpAspGluSerIlePheThrLysGlyCysIleGlnAlaLeu 225
                                                                                                                                                                                                                                                                                                    AAGGTGTGGCTTCAGGAGAACCTG----CTGGCTGTGGGCATCTTTGGGCTGTGCACGGCG
                            GluSerTrpLeuProArgAsnIleTyrIleValAlaGlyValPhe---IleAlaIleSer 244
                                                           CTGCACGCCCCCGGCACCTGG-
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Conservative:
Mismatches:
Indels:
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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Testa, Jacqueline E.
APPLICANT: Guigley, James P.
APPLICANT: Seandel, MARCO
TITLE OF INVENTION: MONOCLONAL ANTIBOIDES THAT RECOGNIZE ANTITLE OF INVENTION: ASSOCIATED WITH TUMOR METASTASIS
FILE REFERENCE: SUNY
CURRENT APPLICATION NUMBER: US/09/333,599
CURRENT FILING DATE: 1999-06-15
NUMBER OF SEQ ID NOS: 5
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 5
LENGTH: 827
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; LOCATION: (57)..(815)
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Patent No. 6245898
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ORGANISM: Homo
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                 AspLeuGlnAsnLeuIleAspSerLeuGlnLysAlaAsnGlnCysCysGlyAlaTyrGly 158
                                                                                                                                                                                                                                                                                          ValValLeuValLeuMetValGlyValValMetPheThrLeuGlyPheAlaGlyCysVal
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GCTGTGACCAGCGGTGGACCAGCTGCAGCAGGAGTTCCACTGCTGTGGCAGCAACAAC
                                                                                               ArgPheArgGluPhePheGluSerAsnIle---LysSerTyrArgAsp---
                                                                                                                                                            PhePheLeuGluLeuAlaValAlaValLeuAlaPheLeuPheGlnAspTrpValArgAsp
                                                                                                                                                                                              GCCACCTTCAAGGAGCGTCGGAACCTGCTGCGCCCTGTACTTCATCCTGCTCCTCATCATC
                                                                                                                                                                                                                             GlyAlaLeuArgGluAsnIleCysLeuLeuAsnPhePheCysGlyThrIleValLeuIle 101
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                                                              GAGCTCAAGGAGAACCTGAAGGACACCATGACCAAGCGCTACCACCAGCCGGCCCATGAG
                                                                                                                             TTTCTGCTGGAGATCATCGCTGGTATCCTCGCCTACGCCTACTACCAGCAGCTGAACACG
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CURRENT APPLICATION NUMBER: US/09/333,599
CUGRENT FILING DATE: 1999-06-15
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 870
TYPE: DNA
ORGANISM: Homo sapiens
US-09-333-599-1
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Best Local Similarity:
Query Match:
DB:
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US-09-333-599-1
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Patent No. 6245898
GENERAL INFORMATION:
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APPLICANT: Quigley, James P.
APPLICANT: Seandel, Marco
TITLE OF INVENTION: WONOCLONAL ANTIBOIDES THAT RECOGNIZE ANTIGENS
TITLE OF INVENTION: ASSOCIATED WITH TUMOR METASTASIS
FILE REFERENCE: SUNY
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                           230 CTCAAGAGTGACTACATCAGCCTGCCTGGCCTCAGGCACCTAC-----CTGGCCACA 280
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                                                                                               AsnIleIlePheTrpLeuAlaGlyValValPheLeuGlyValGlyLeuTrpAlaTrpSer 42
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ValValLeuValLeuMetValGlyValValMetPheThrLeuGlyPheAlaGlyCysVal 81
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Matches:
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COUNTY: USA ZIP: 07068  MEDIUM TYPE: 3.5 INCH DISKETTE MEDIUM TYPE: 3.5 INCH DISKETTE COMPUTER: IBM PS/2  OPERATING SYSTEM: MS-DOS SOTTWARE: WORD PERFECT 5.1 RENUT APPLICATION DATA: APPLICATION NUMBER: US/08/705,771  FILING DATE: August 30, 1996	ZIP: 07 ZIP: 07 ZIP: 07 COMPUTER R MEDIUM TE COMPUTER OPERATIN SOFTWARE CURRENT APPLICAT FILING D	
ZO HH	ADDR ADDR STRE CITY STAT	
QUENCES: 22 CE ADDRESS:	NUMBER CORRES	
Jian Ni and Jing-Shan Hu NVENTION: Human Genes, Sequence	APPLICANT:	
RMATION: Paul Moore, Reiner Ger	GENERAL INFO APPLICANT:	
71-8 8, Application US/08705771	ESULT 4 S-08-705-7 Sequence	· · · □ ૠ
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is 269	269 н	Qy
TTTGGCATGATCTTCACGTGCTGCCTGTACAGGAGTCTCAAGCTGGAGCAC 856	806	Дb
aValLysAlaGlyH	249	Qy
ATCCAGGAGCACCTGAGGGTCATTGGGGCTGTGGGGGATCGGCATTGCCTGTGTGCAGGTC 805	746	Db
LeuProArgAsnIleTyrIleValAlaGlyValPheIleAlaIleSerLeuLeuGlnIle 248	229	Qγ
⊬]	b 716 -	Db
sSerLysTrpAspGluSerIlePheThrLysGlyCysIleGlnAlaLeuGluSerT	у 209 Ly	Qy
CAGCGAGACCATGCCTCCAACATC	665 G	Db
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ValProAspProAlaGlnLysValV	179	Qy
TCACAGGACTGGCGAGACAGTGAGTGGATCCGCTCACAGGAG 622	581	. Db
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hePheLeuGluLeuAlaValAlaValLeuAlaPheLeuPheGlnAspTrpValArgAsp 121	у 102 Р	Qy
GCCACCTTCAAGGAGCGTCGGAACCTGCTGCGCCCTGTACTTCATCCTGCTCCTCATCATC 400	341	DЪ
lyAlaLeuArgGluAsnIleCysLeuLeuAsnPhePheCysGlyThrIleValLeuIle 101	82	VΩ
GCTACATCCTGGTGGTGGCGGGCACTGTCGTCATGGTGACTGGGGTCTTGGGCTGCTGC 340	281	DЬ

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TELEFAX: 973-994-1/4,
TELEFAX: 973-994-1/4,
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 1344 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
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NAME: MULLINS, J.G.
REGISTRATION NUMBER: 33,073
REFERENCE/DOCKET NUMBER: 325800-346 (PF196)
TELECOMMUNICATION INFORMATION:
TELEPHONE: 973-994-1700
TELEPAX: 973-994-1744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NO.:
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                                                                                  212 pAspGluSerIlePheThrLysGlyCysIleGlnAlaLeuGluSerTrpLeuProArgAs 232
                                                                                                                                                     193 GlnLysValValAsnThrGlnCysGlyTyrAspVal-ArgIleGlnLeuLysSerLysTr 212
                                                                                                                                                                                                         173 AlaSerTyrSerArgGluLysCysGlyValProPheSerCysCysValProAspProAla
                                                                                                                                                                                                                                                                              153 CysCysGlyAlaTyrGlyProGluAspTrpAspLeuAsnValTyrPheAsnCysSerGly
                                                                                                                                                                                                                                                                                                                         522 GGCACGCAGGGCAACGTGGGCCTCACCAACGCCTGGAGCATCATCCAGACCGACTTCCGC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           96 GlyThrIleValLeuIlePhePheLeuGluLeuAlaValAlaValLeuAlaPheLeuPhe 115
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nlleTyrIleValAlaGlyValPheIleAlalleSerLeuLeuGlnIlePheGlyIlePh 252
                                                  GTGGAGGGCCGTG-----
                                                                                                                                                                                      -----AACGCCACGCGGGTACCTGACTCCTGCTTGGAG------
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                                                                                                                     ----TTCAGTGAGAGCTGTGGGCTGCACGCCCCGG-----
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28.63%
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eLeuAlaArgThrLeuIleSerAspIleGluAlaValLySAl CTTCCCCATGCCCATGTACTGGCAAGTGGTCAAGGC 0.44-4 4. Application US/08807044 6. 5863735 6. INFORMATION: CANT: Goll, Surya K. 2 OF INVENTION: NOVEL HUMAN TRANSMEMBRANE 2 OF INVENTION DATA: 3 OF INVE	Qy	Ф	Фр	US-09	Alignment Pred. No Score: Percent S: Best Local Query Matt DB:	US-08					; Pat	RESULT US-08-8 ; Seque	Db 48	?
TRANSMEMBRANE 4  TRANSMEMBRANE 5  TRANSM		36 ValGlyLeuTrp 		905-674-2 (1-270) x US-08-	Scores: 9.83e-2 : 259.50 !milarity: 42.868 ! Similarity: 24.60% ch: 17.91%	HARACTERISTICS: 1452 base pairs ucleic acid NESS: single : linear SOURCE: SOURCE: SOURCE: SOURCE: 180140	749 PF-0	APPLICATION NUMBER: US/08/807, FILING DATE: Herewith CLASSIFICATION: 530 PRIOR APPLICATION DATA: APPLICATION NUMBER: ETITING DATE:	le Windows	COUNTRY: USA	ent No. 5863/35 NERAL INFORMATION: APPLICANT: Hillman, Jennifer L. APPLICANT: Goli, Surya K. APPLICANT: NOVEL HUMAN	5 307-044-4 ence 4, Application	0 (	л Э
	/alLeuValLeuMetValGlyVal	luLysGlyValLeuSe          ACTTCGGAGTGCTC	lePheTrpLeuAlaG  	4 (1-1452	(0		24	044	ion 2.	so,				Clual swall weals

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                               TITLE OF INVENTION: Rapid Immunoselection Cloning Method NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
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5370 Manhattan Circle, Suite
                     PCT/US91/04986
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Query Match:
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INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
FRUGTH: 1452 base pairs
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NAME: Wall, Margaret M.
REGISTRATION NUMBER: 33,462
REFERENCE/DOCKET NUMBER: 11-8
TELECOMMUNICATION INFORMATION:
TELEPHONE: 303-499-8080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 13-JUL-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
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APPLICATION NUMBER: US/07
FILING DATE: 13-JUL-1990
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NAME/KEY:
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                                 AsnGlnCysCysGlyAlaTyrGlyProGluAspTrpAspLeuAsnValTyrPheAsnCys 170
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CTGCAGTGTTGTGGTATAAATGGCACGAGTGATTGG-----
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PCT-US91-04986-1

Sequence 1, Application PC/TUS9104986 GENERAL INFORMATION:

APPLICANT:

APPLICANT:

Seed, Brian

APPLICANT:

Aruffo, Alejandro Camerini, David Allen, Janet

Lauffer, Leander

APPLICANT: APPLICANT:

APPLICANT: APPLICANT:

Stamenkovic, Ivan Stengelin, Siegfried Amiot, Martine Oquendo, Carmen Simmons, David L.

STREET: 5370 P CITY: Boulder STATE:

ADDRESSEE:

COUNTRY:

USA

Colorado

80303

APPLICATION NUMBER: PO

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        REFERENCE/DOCKET NUMBER: 4177
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 523-3400
TELEPAX: (617) 523-440
TELEX: 200291 STRE UR
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 687 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 2, Application US/08254493 Patent No. 5439886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FOR COMPATION
COMPUTER: PATENTIAL PC-DOS/MS-DOS
SOFTWARE: PATENTIA Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: DAVID G: CONLIN; DIKE, BRONSTEIN,
                                                                                                                             APPLICATION NUMBER: JP 02
FILING DATE: 07-FEB-1992
ATTORNEY/AGENT INFORMATION:
NAME: RESULT, DAVID S.
                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 12-APR-
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                       CLASSIFICATION: 435
PRIOR APPLICATION DATE: US 07/865552
PRIOR APPLICATION NUMBER: US 07/865552
FILING DATE: 09-APR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: MONOCLONAL TITLE OF INVENTION: PRODUCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: KOYAMA, MASARU
APPLICANT: MIYAKE, MASAYUKI
APPLICANT: SENOO, MASAHARU
                                                                                                                                                                                        APPLICATION NUMBER: JP 085396-1991 FILING DATE: 17-APR-1991 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 130 W
CITY: BOSTON
STATE: MASSAC
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                                                                                                                        REGISTRATION NUMBER:
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nucleic acid
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Best Local Similarity:
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              ATGATCTTCAGTATGATCTTG
                                      IlePheLeuAlaArgThrLeu
                                                                                                                                                                              AAGAAGGACGTACTCGAAACC--
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US-09-905-674-2 (1-270) x US-08-254-493-2 (1-687)
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AATAAATTCCACATCATCGGCGCAGTGGGCATCGGCATTGCCGTGGTCATGATATTTGGC
                                                                                                                                                                   TrpAspGluSerIlePheThr---LysGlyCysIleGlnAlaLeuGluSerTrpLeuPro
                                                                                                                                                                                                                                                                                                                   AlaGlnLysValValAsnThrGlnCysGlyTyrAspValArgTleGlnLeuLysSerLys
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                                                     ArgAsnIleTyrIleValAlaGlyValPheIleAlaIleSerLeuLeuGlnIlePheGly
                                                                                                                           ----TTCACCGTGAAGTCCTGTCCTGATGCCATCAAAGAGGTCTTCGAC
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Matches:
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Mismatches:
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RESULT 8
US-08-408-222B-2
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                                                                         Percent Similarity:
Best Local Similarity:
Query Match:
                               US-09-905-674-2 (1-270) x US-08-408-222B-2 (1-687)
                                                                                                                                                         Alignment Scores:
                                                                                                                                                                                          US-08-408-222B-2
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                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: 617-523-6440 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                       FRAGMENT TYPE:
ORIGINAL SOURCE:
ORGANISM: huma
CELL TYPE: bre
CELL LINE: ZR-
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FILING DATE: 06-UUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP-079996-1991
FILING DATE: 12-APR-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 12-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 19-08
FILING DATE: 14-APR-1991
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Dike, Bronstein, Roberts & Cushman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: MONOCLONAL ANTIBODY, POLYPEPTIDES NUMBER OF SEQUENCES: 7
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                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 687 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: JP-0
FILING DATE: 07-FEB-1994
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: HYPOTHETICAL:
                                                                                                                                           No.:
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SOFTWARE: FastSEQ Version 1.5
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                                                                                                                                                                                                                                                                                                                                                                  TYPE: nucleic acid
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REFERENCE/DOCKET NUMBER: 41777-DIV
                                                                                                                                                                                                                                                                                                                                      TOPOLOGY:
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 16 LysTyrLeuLeuPheSerTyrAsnIleIlePheTrpLeuAlaGlyValValPheLeuGly
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Miyake, Masauyki
Senoo, Masaharu
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07-FEB-1994
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US-08-408-222B-3
                                                                                                                                                                                                                                                                                      Sequence 3, Application US/08408222B Patent No. 5776727 GENERAL INFORMATION:
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
                                                                                                                                                                                                                     APPLICANT: Ikeyama, Shuichi
APPLICANT: Koyama, Masaru
APPLICANT: Miyake, Masauyki
APPLICANT: Senoo, Masaharu
                                                                                                                                                                    NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                    TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                             631
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                                                                                COUNTRY:
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                                                                     02109
                                                                                                                   Boston
                                                                                                     MΑ
                                                                                                                                     130 Water Street
                                                                                     USA
                                                                                                                                                                                                       Senoo, Masaharu VENTION: MONOCLONAL ANTIBODY, POLYPEPTIDES
                                                                                                                                                   Dike, Bronstein, Roberts & Cushman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ----TTCACCGTGAAGTCCTGTCCTGATGCCATCAAAGAGGTCTTCGAC 570
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                                                                                                                                                                                                                                                                                                                                                                                                                     Percent Similarity:
Best Local Similarity:
Query Match:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/408,222B
FILING DATE: 22-MAR-1995
FILING DATE: 22-MAR-1995
PAIDR APPLICATION: 536
PAIDR APPLICATION DATA:
APPLICATION NUMBER: 08/254,493
FILING DATE: 06-JUN-1994
PAIDR APPLICATION NUMBER: JP-079996-1991
FILING DATE: 12-APR-1991
PAIDR APPLICATION NUMBER: JP-085396-1991
FILING DATE: 14-APR-1991
PAIDR APPLICATION NUMBER: JP-02321-1992
APPLICATION NUMBER: JP-022321-1992
FILING DATE: 07-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Resnick, David S.
REGISTRATION NUMBER: 34,235
REGERENCE/DOCKET NUMBER: 41777-DIV
TELEPAX: 617-523-3400
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1120 base pairs
TYPE: nucleic acid
TODATOGY. 1100AT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: line
MOLECULE TYPE: c
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:

NAME/KEY: Coding Sequence
LOCATION: 112...795
OTHER INFORMATION: E Mat peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              No . .
382 CTGTTCTTCGGCTTCCTCTTGGTGATATTCGCCATTGAAATAGCTGCGGCCATCTGGGGA 441
                                                                                                                                         262 AATAATAATTCCAGCTTCTACACAGGAGTCTATATTCTGATCGGAGCCGGCGCCCTCATG 321
                                                                                                                                                                                                                          202
                                                                                                                                                                                                                                                                                              142
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                                                                                                                                                                                                                                     36 ValGlyLeuTrpAlaTrpSerGlu------LysGlyValLeuSerAspLeuThrLys 52 :::|||||||
                                                                                                                                                                                                                                                                                                         16 LysTyrLeuLeuPheSerTyrAsnIleIlePheTrpLeuAlaGlyValValPheLeuGly 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: human
CELL TYPE: breast carcinoma
CELL LINE: ZR-75-1
                                                                 PhePheCysGlyThrIleValLeuIlePhePheLeuGluLeuAlaValAlaValLeuAla 112
                                                                                                                                                                           ValThrArgMetHisGlyIleAspProValValLeuValLeuMetValGlyValValMet 72
                                                                                                                                                                                                               ATTGGACTATGGCTCCGATTCGACTCTCAGACCAAGAGCATCTTCGAGCAAGAAACTAAT 261
                                                                                                                                                                                                                                                                                     AAATACCTGCTGTTCGGATTTAACTTCATCTTCTGGCTTGCCGGGATTGCTGTCCTTGCC 201
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257.50
257.50
43.72%
25.91%
17.77%
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Matches:
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	STRANDEDNESS: single	٠. ٠	
	LENGTH: 1624 base pai		
	INFORMATION FOR SEQ ID NO: 19: SEQUENCE CHARACTERISTICS:		
	TELEX:	•••	
	TELEPHONE: (212) 758-4800		
	REFERENCE/DOCKET NUMBER: 2026-4172 TELECOMMUNICATION INFORMATION:	٠. ٠.	
	ON NUMBER: 36,459	•••	
	ATTORNEY/AGENT INFORMATION: NAME: RICHARD W. BORK	٠. ٠.	
	N: 514	٠. ،	
	APPLICATION NUMBER: 0S/08/430,225A FILING DATE: 28-APR-1995	•. •.	
	ICATION DATA:	٠.	
	S LOEAN	٠. ٠	
	IBM PC COMPATIBLE	٠	
	TYPE: FLOPPY DIS	٠.	
	COMPUTER READABLE FORM:	٠. ،	
	COUNTRY: USA		
	STATE: NEW YORK	٠. ٠	
	STREET: 345 PARK AVENUE	٠. ٠.	
	MORGAN	•••	
	CORRESPONDENCE ADDRESS:	٠. ،	
	OF INVENTION: HUMAN METASTASIS SUPPRESSOR GENE KAI1	٠ ٠.	
	OF INVENTION: GENE THERAPY USING REAGENTS	٠. ٠	
	DIAGNOSTIC		
	CANT: Dong, Jin-Tang; Barrett,		
	INFORMATION:		
	enc	 g g	
	SULT 10 -08-430-225A-19	RES	
	742 ATGATCTTCAGTATGATCTTG 762	Db	
	251 IlePheLeuAlaArgThrLeu 257	Qу	
741	CATCATCGCGCAGTGGGCATCGGCATTGCCGTGGTCATGATATTTGGC	Db	
250	T AIGHSHITETYTTEVATALAGIYVAL	XX	
١ .	31 ArchenTleWorTleWolklacl.com.photlewistleger.com.com.cri.ph.com.	Q	
681	637TTCACCGTGAAGTCCTGTCCTGATGCCATCAAAGAGGTCTTCGAC	DЬ	
230	LysGlyCysIleGlnAlaLeuG	Qу	
636	616 AAGAAGGACGTACTCGAAACC	Дb	
211	192 AlaGlnLysValValAsnThrGlnCysGlyTyrAspValArgIleGlnLeuLysSerLys	Qy	
615	CATCTGC	Дb	
191	172 GlyAlaSerTyrSerArgGluLysCysGlyValProPheSerCysCysValProAspPro	Qу	
591	562 AACTGCTGTGGGTTTGGCTGGGGGCGTGGAA	Db	
171	152 GlnCysCysGlyAlaTyrGlyProGluAspTrpAspLeuAsnValTyrPheAsnCysSer	Qy	
561	502 AAGCTGAAAACCAAGGATGAGCCCCAGCGGGAAACGCTGAAAGCCATCCACTATGCGTTG	DЪ	
151	133 SerTyrArgAspAspIleAspLeuGlnAsnLeuIleAspSerLeuGlnLysAlaAsn	Qy	
501	442 TATTCCCACAAGGATGAGGTGATTAAGGAAGTCCAGGAGTTTTACAAGGACACCTACAAC	Db	
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DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score:
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US-08-430-225A-19
                                                                  Sequence 2, Application US/08855140 Patent No. 5854022
                                                    GENERAL INFORMATION:
     APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             No.:
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                                                                                                                                                                          SerLeuLeuGlnIlePheGlyIlePheLeuAlaArgThrLeuIleSerAspIleGluAla
                                                                                                                                               GCCATCATCGAGCTCCTGGGGATGGTCCTGTCCATCTGCTTGTGCCGGCACGTCCATTCC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAATACTTTCTCTTCCTCTTCAACTTGATCTTCTTTATCCTGGGCGCAGTGATCCTGGGC
                                                                                                                                                                                                                                           AlaLeuGluSerTrpLeuProArgAsnIleTyrIleValAlaGlyValPheIleAlaIle 243
                                                                                                                                                                                                                                                                                                                                                                                                                                          AsnCysSerGlyAlaSerTyrSerArgGluLysCysGlyValProPheSerCysCysVal 188
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTCTACTTCAACATGGGCAAGCTGAAGCAGGAGATGGGCGGCATCGTGACTGAGCTCATT
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                                                                                                                                                                                                                                                                             AGGACCCAGAGTGGCAACCACCCTGAGGACTGGCCTGTGTACCAGGAGGGCTGCATGGAG
                                                                                                                                                                                                                                                                                                          ArgIleGlnLeu---LysSerLysTrpAspGluSerIlePheThrLysGlyCysIleGln 223
                                                                                                                                                                                                                                                                                                                                            AAGGGGGAAGAGGACAACAGCCTTTCTGTGAGGAAGGGCTTCTGCGAGGCCCCCGGCAAC
                                                                                                                                                                                                                                                                                                                                                                           ProAspProAlaGlnLysValValAsnThrGlnCysGlyTyr------AspVal 204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LysSerTyr-----ArgAspAspIleAspLeuGlnAsnLeuIleAspSerLeuGln 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AlaPheLeuPheGlnAspTrpValArgAspArgPheArgGluPhePheGluSerAsnIle 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AsnPhePheCysGlyThrIleValLeuIlePhePheLeuGluLeuAlaValAlaValLeu 111
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Hillman, Jennifer L.
Bandman, Olga
Goli, Surya K.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels:
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Percent Similarity:
Best Local Similarity:
Query Match:
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TOPOLOGY: LILLUM

TOPOLOGY: LILLUM

TOPOLOGY: LILLUM

TONE: 779308
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: [FILING DATE: Herewith CLASSIFICATION: 435 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: FastSEQ for CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                No . :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
LENGTH: 977 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Guegler, Karl J.
TITLE OF INVENTION: NEW TRANSMEMBRANE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
                                                                                                                                                                                     254
                                                                                                                                                                                                                                                                                                                       140 TGCTGCTTGAAGTACATGATGTTCCTCTTCAATTTGATATTCTGGCTCTGTGGCTGTGGG
              113 PheLeuPheGlnAspTrpValArgAspArgPheArgGluPhePheGluSerAsnIleLys 132
                                                                                                                                                                                                                                                       200
                                                                                                                                                   73
                                                                                                                                                                                                                                                                                33 PheLeuGlyValGlyLeuTrpAlaTrpSerGluLysGlyValLeuSerAspLeuThrLys 52
                                                                                                                                                                                                                                                                                                                                                           13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: 415-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OPERATING SYSTEM:
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                                                                                                                                                                                                                                                                                                                                     CysTrpTyrLysTyrLeuLeuPheSerTyrAsnIleIlePheTrpLeuAlaGlyValVal
                                                                                                                                                                                     TCCCCCAGCTTCCCTTCGTTGTCTGCAGCCAACCTGGTCATCGCCATAGGCACCATTGTC
                                                                                                                                                                                                                                                     CTGCTGGGAGTGGGCATCTGGCTCTCCGTGTCCCAAGGCAACTTTGCC-----ACCTTC
                                                AGCTTTTTCATCGTCCTGGTCACCCTCCTAGCAGAGCTGATCTTACCCATCCTCTTC
                                                                                PhePheCysGlyThrIleValLeuIlePhePheLeuGluLeuAlaValAlaValLeuAla
                                                                                                                   ATGGTGACGGGCTTCCTCGGCTGCCTGGGGGGCCATCAAGGAAAACAAGTGCCTCCTCCTC
                                                                                                                                       PheThrLeuGlyPheAlaGlyCysValGlyAlaLeuArgGluAsnIleCysLeuLeuAsn
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Indels:
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Sequence 3, Application US/08254493 Patent No. 5439886
                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: US 07/865552
APPLICATION NUMBER: US 07/865552
FILING DATE: 09-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 079996-199
FILING DATE: 12-APR-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: MIYAKE, MASAYUKI
APPLICANT: SENOO, MASAHARU
TITLE OF INVENTION: MONOCLONAL ANTIBODY,
TITLE OF INVENTION: PRODUCTION THEREOF
                                                                                               APPLICATION NUMBER: JP 022321-1992
FILING DATE: 07-FEB-1992
ATTORNEY/AGENT INFORMATION:
NAME: RESNICK, DAVID S.
                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 085396-1991
                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.
CURRENT APPLICATION DATA:
                                     REFERENCE/DOCKET NUMBER: 41777 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   716 GATGACAATAAGCACGTGCTT 736
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               171 SerGlyAlaSerTyrSerArgGluLysCysGlyValProPheSerCysCysValProAsp
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 1120 base
Type:
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                                       616 AAGAAGGACGTACTCGAAACC-----
                                                                           192 AlaGlnLysValValAsnThrGlnCysGlyTyrAspValArgIleGlnLeuLysSerLys
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Matches:
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Mismatches:
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RESULT 12 US-08-254-493-3

GENERAL INFORMATION:

APPLICANT:

KOYAMA, MASARU

NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:

COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk

COUNTRY:

02109

STREET: ADDRESSEE:

BOSTON

MASSACHUSETTS

CLASSIFICATION: 435 FILING DATE:

APPLICATION NUMBER:

PRIOR APPLICATION DATA:

REGISTRATION NUMBER:

: (617) 523-34 (617) 523-6440

RESNICK, DAVID S.

FILING DATE:

17-APR-1991

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                                                           US-09-905-674-2 (1-270) x US-08-808-148-2 (1-933)
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                                                                                                                                         Percent Similarity:
                                                                                                                                                              Score:
                                                                                                                                                                                       Alignment Scores:
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Patent No. 6020478
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                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 933 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
COMPUTER: IBM Compat
                                                                                                                                                                          No . :
                                                                                                                                                                                                                                                                    TOPOLOGY: line IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 514
PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Zhang, Hong Wolfe
TITLE OF INVENTION: NOVEL HUMAN TUMOR-ASSOCIATED ANTIGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
116 ACAGGAGCCACCATGCAGTGCTTCAGCTTCATTAAGACCATGATGATCCTCTTCAATTTG
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CLONE: 2187263
                                                                                                                                                                                                                                                                                              STRANDEDNESS: single
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REGISTRATION NUMBER: 36,749
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CITY: Palo Alto
STATE: CA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER:
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                         SerAsnAlaLysValSerCys-----TrpTyrLysTyrLeuLeuPheSerTyrAsnIle 24
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RESULT 14
US-09-020-956-111
; Sequence 111, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
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      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC DOS/MS-DOS
                                                                                                                                                                       APPLICANT: Xu, Jiangchun APPLICANT: Xu, Jiangchun C. APPLICANT: Dillin, Davin C. TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS NUMBER OF SEQUENCES: 178
                                                                                                                                                                     CORRESPONDENCE ADDRESS:
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   SOFTWARE:
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                                                                                             USA
PatentIn Release #1.0, Version #1.30
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/020,956
FILING DATE: 09-FEB-1998
CLASSIFICATION:

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Percent Similarity:
Best Local Similarity:
Query Match:
DB:
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US-09-020-956-111
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TELEPAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 111:
SEQUENCE CHARACTERISTICS:
LENGTH: 1289 base pairs
TYPE: nucleic acid
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NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
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ORIGINAL SOURCE:
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192 aGlnLysValValAsnThrGlnCysGlyTyrAspValArgIleGlnLeuLysSerLysTr 212
                                                                                                     575 CTTCACCAACTATACGGATTTTGAGGACTCACCCTACTTC----
                                                                                                                               155 yAlaTyrGlyProGluAspTrpAspLeuAsnValTyrPheAsnCysSerGlyAlaSerTy 175
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Оу	US-09	Alignmen Pred. N Score: Percent Best Lo Query M DB:	7 IN			** ** ** ** *			G G	RESULT US-09-( ; Seque	Db	0	Db VY	, 5	P 09	Db
7 SerAsnAlaLysValSerCysTrpTyrLysTyrLeuLeuPheSerTyrAsnIle 24 :::       :::       :::       ::::         ::::	9-905-674-2 (1-270) x US-09-030-607-111 (1-1289)	Alignment Scores: 1.12e-17 Length: 1289 Pred. No.: 218.50 Matches: 72 Score: 218.50 Matches: 72 Percent Similarity: 44.098 Conservative: 51 Best Local Similarity: 25.81% Mismatches: 112 Query Match: 15.08% Gaps: 8  DB: Gaps: 8	TELEFAX: (206) 682-6031 INFORMATION FOR SEQ ID NO: 111: SEQUENCE CHARACTERISTICS: LENCTH: 1289 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: CDNA ORIGINAL SOURCE: ORGANISM: Homo sapiens	ATTORNEY/AGENT INFORMATION:  NAME: Maki, David J.  REGISTRATION NUMBER: 31,392  REFERENCE/DOCKET NUMBER: 210121.427C3  TELECOMMUNICATION INFORMATION:  TELEPHONE: (206) 622-4900	CURRENT APPLICATION DATA:  PAPLICATION NUMBER: US/09/030,607  FILING DATE: 25-FEB-1998  CLASSIFICATION:	COMPUTER READABLE FORM: MEDLIM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.30	CIT: SEALLE STATE: WA COUNTRY: USA ZIP: 98104	ONDENCE ADDRESS ESSEE: SEED and ET: 6300 Columb	AL INFO LICANT: LICANT: LE OF I	SULT 15 -09-030-607-111 Sequence 111, Application US/09030607	15 T	252 eLeualaargThrLeuTleSerAspIleGluAlaValLysAlaGlyHisHisPhe 270	232 ILLETYTLEVELLEGIJVELFRELLEGIJEGELEGIJEGELEGIJETE E E E E E E E E E E E E E E E E E E	The state of the s	212 paspGluSerIlePheThrLysGlyCysIleGlnAlaLeuGluSerTrpLeuProArgAs 232	:::       ::: :::::::::::::::::::::

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                        252 eLeuAlaArgThrLeuIleSerAspIleGluAlaValLysAlaGlyHisHisPhe 270
                                                                                 232 nIleTyrIleValAlaGlyValPheIleAlaIleSerLeuLeuGlnIlePheGlyIlePh 252
                                                                                                                                                                       671 CAATGAAACCTGCACCAAGCAAAAGGCTCACGACCAAAAAGTAGAG----- 716
                                                                                                                                                                                                                               615 ----AAAGAGAACAGTGCCTTTCCCCCCATTCTGTTGCAATGACAACGTCACCAACACAGC
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Search completed: December 19, 2002, 07:46:59 Job time: 56 secs

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GenCore version 5.1.3 Copyright (c) 1993 - 2002 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 19, 2002, 01:02:16; Search time 260 Seconds (without alignments) 12022.206 Million cell updates/sec

Title: Perfect score: US-09-905-674-1 1388 1 cttcctcggccgag

Sequence: cttcctcggccgagccgggc.....gggaggcgngacgttggccc 1388

Scoring table:

2185239 seqs, 1125999159 residues IDENTITY\_NUC
Gapop 10.0 , Gapext 1.0

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database N\_Geneseq\_101002:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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99.8 95.3 94.4 93.1 91.9 85.7 71.1 58.5	Query Match Length DB
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221 221 221 221 221	DB
AAD29623 AAA93623 AAX65259 AAF90628 AAS92016 AAZ65350 AAX60192 AAX60192 AAF90629	ID
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## ALIGNMENTS

RESULT 1 AAD29623 Human tetraspan protein, TSPAN-7 encoding cDNA. 17-MAY-2002 (first entry) AAD29623; AAD29623 standard; cDNA; 1388 ВP

Human; tetraspan protein; TSPAN-7; hyperproliferative disorder; neoplastic disease; prostate cancer; antisense therapy; tumour; ss. Homo sapiens.

misc\_feature

Location/Qualifiers 67..879

/\*tag- a /product= "Human TSPAN-7 protein" 1234.1237 /note= "These bases are given as YTY in the sequence shown as SEQ ID NO:1 in Fig 2 of the specification" /\*tag=

24-JAN-2002. 13-JUL-2001; 2001WO-US22134

WO200206340-A2.

14-JUL-2000; 2000US-218280P

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New inhibitor of tetraspan protein useful for reducing the expression or activities of tetraspan protein in cells, and for treating a hyperproliferative disorder, especially cancer in a mammal -
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AAA93623 standard; DNA; ВP

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tetraspanin-like protein splice variant SECX 3911675

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KW Spir SECX protein; human; secreted; membrane-associated; cancer; proliferation regulator; differentiation regulator; non-malignant tummune discorder; autoimmune discase; transplant rejection; allergy; A infection; inflammatory disorder; arthritis; haematopoietic disorder; skin disorder; cardiovascular disorder; atherosclerosis; restenosis; neurological discase; Alzheimer's discase; trauma; wounding; neurological discase; Alzheimer's cytostatic; immunosuppressive; apinal cord injury; skeletal disorder; cytostatic; antiarteriosclerotic; non-malignant tumour;
ection; allergy; AIDS;

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                                                                                                                                                                                                                                                                                                                                                                                                        compounds that modulate SECX activity or expression. The interaction of compounds that modulate SECX activity or expression. The interaction of compounds that modulate SECX activity or expression. The interaction of ca SECX protein and nucleotides. The SECX proteins may be useful to screen cc compounds that modulate SECX activity or expression. The interaction of ca SECX protein with other cellular proteins may be useful to modulate ct the activity of a partner protein, cellular proliferation, cellular cc differentiation and cell survival. SECX nucleotides are useful for the cc recombinant expression of SECX protein, and may be useful to modulate crecombinant expression of SECX protein, and may be useful for the cc secx early using antisense oligonucleotides). SECX nucleic caid sequences are also useful for identifying a cell or tissue type in caid sequences are also useful for identifying a cell or tissue type in caid sequences are also useful for identifying a cell or tissue type in cu seful for detecting the presence of SECX nucleotides and for screening tissue cultures for contamination. Diseases that may be treated or correctal carrinoma, prostate cancer), benign tumours, immune disorders (including autoimmune diseases, transplant rejection, allergies, AIDS), confections, inflammatory disorders, atthritis, haematopoletic disorders, skin disorders, cardiovascular disorders, thereosclerosis, restenosis, concursical conditions of traumatic wounds, spinal cord injury), and skeletal cc disorders.
                                                                                                                                                                                                                                                                   Matches 1354;
                                                                                                                                                                                                                                                                                        Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequences AAA93616-A93631 and AAA93673-A93676 represent nucleic acids which encode human SECX proteins (AAB23029-B32048). The SECX proteins of the invention are either secreted or membrane-associated proteins and act as regulator of cellular proliferation and differentiation. SE proteins or nucleotides are useful for diagnosing the presence of, or proteins or nucleotides are useful for diagnosing the presence of, or proteins or nucleotides are useful for diagnosing the presence of, or proteins or nucleotides are useful for diagnosing the presence of, or proteins or nucleotides are useful for diagnosing the presence of, or proteins of the presence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel human membrane associated or secreted polypeptides and polypucleotides useful for diagnosis, prevention and treatment pathological states such as cancer, immune, cardiovascular and neurological disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 3; Fig 8A; 151pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   09-MAR-1999; 99US-0123667.
08-MAR-2000; 2000US-0123667.
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dermatological; gene therapy; ds.
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18 MAY - 1998
AAZ65250 to AAZ65350 represent 97 isolated human secreted protein genes. This sequence was found to be present on human chromosome 10.

AAX76124 to AAX76232 represent the secreted proteins encoded by the 97 human genes. The genes and their corresponding secreted polypeptides are useful for preventing, treating or ameliorating medical conditions, e.g. by protein or gene therapy. Also pathological conditions can be diagnosed by determining the amount of the new polypeptides in a sample or by determining the presence of mutations in the new genes. Specific uses are described for each of the 97 genes, based on which tissues they are most highly expressed in, and include developing products for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; secreted protein; cancer; tumour; developmental abnormality; foetal deficiency; blood disorder; immune system disorder; inflammation; autoLumune disease; selergy; Alzheimer's disease; cognitive disorder; schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder; atherosclerosis; diabetes; cardiovascular disorder; kidney disorder; digestive disorder; endocrine disorder; infection; AIDS; leukaemia; therapy; chromosome 10; ds.
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                                                                                                                             New isolated human genes and the secreted polypeptides they encode, useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAZ65259
                                                                                                                                                                                                    Lafleur
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, Endress GA,
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diagnosis or treatment of cancer, tumours, developmental abnormalities and feetal deficiencies, blood disorders, diseases of the immune system, autoimmune diseases, inflammation, allergies, Alzheimer's and cognitive disorders, schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders, atherosclerosis, diabetes, cardiovascular disorders, kidney disorders, digestive/endocrine disorders, infections and AIDS. The polypeptides are also useful for identifying their binding partners. The sequences shown in AAX76224 to AAX76424 represent fragments of the
                                                                                                                                                                                               TGCTGGTCCTGATGGTGGGCGTGGTGATGTTCACCCTGGGGTTCGCCGGCTGCGTGGGGG
                                                        TCTCGCTGTTGCAGATATTTGGCATCTTCCTGGCAAGGACGCTGATCTCAGACATCGAGG
                                                                                                                                                                                                                                                                                                        TCCGGGAGTTCTTCGAGAGCAACATCAAGTCCTACCGGGACGATATCGATCTGCAAAACC
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CAGTGAAGGCCGGCCATCACTTCTGAGGAGCCAGAGTTGAGGGAGCCGAGCTGAGCCACGC
                                                                                                                                           CCTTCTCCTGCTGCCTGCCAGATCCTGCGCAAAAAGTTGTGAACACACAGTGTGGATATG
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                                               Nucleic acids encoding for the prevention, did disorders -
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  Claim 2;
                                                                                                                                             P-PSDB;
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DB; AAB87034, AA
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CC The invention relates to novel secreted/transmembrane proteins, and CC nucleic acids encoding them. The novel proteins are designated TANGO 339, CC TANGO 353, TANGO 358, TANGO 365, TANGO 368, TANGO 369, TANGO 383, TANGO CC 393, TANGO 402, MANGO 346 and MANGO 349 and are of human origin, and a CC murine TANGO 393 is also included within the scope of the invention. The C invention also encompasses fragments and variants of the proteins of the invention and nucleic acids encoding them. The invention additionally CC relates to host cells comprising a nucleic acid of the invention; methods CC for the production of a protein of the invention; an antibody specific CC for a protein of the invention; and methods for detecting a protein or CC nucleic acid of the invention; and methods of identifying agents which CC bind to or modulate the activity of a protein of the invention. The novel CC secreted proteins, nucleic acids encoding them, and antibodies against them may be used in the prevention, diagnosis and treatment of diseases CC associated with inappropriate expression or activity of the secreted proteins. The secreted proteins of expression or activity, which may be useful in CC the treatment of disorders associated with the proteins of the invention. CC invention e.g., cancers and immunological disorders. The present CC sequence represents cDNA encoding human TANGO protein of the invention.
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Sequence 2715 BP; 559 A; 760 C; 715 G; 681 T; 0 other;

Query Match
Best Local Similarity
Matches 1317; Conserv

Conservative

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93.1%;

DB 6;

22; Length Indels

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                      GTTGTGAACACACAGTGTGGATATGATGTCAGGATTCAGCTGAAGAGCAAGTGGGATGAG
                                                                                     TACAGCCGAGAGAAGTGCGGGGGTCCCCTTCTCCTGCTGCGTGCCAGATCCTGCGCAAAAA
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Pred. No. 0;
2; Mismatches
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TCCATCTTCACGAAAGGCTGCATCCAGGCGCTGGAAAGCTGGCTCCCGCGGAACATTTAC

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  (HYSE-) HYSEQ
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23-AUG-2000;
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upplement; medical imaging; diagnostic; genetic disorder;
                                                                                                               2001WO-US08631
                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                             2000US-0540217
2000US-0649167
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New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess
                                                                                                                                                                  P-PSDB;
                                                                                                                                                                                 Drmanac RT,
                                                                                                                                                                       2001-639362/73
                                                                                                                                                                                 Liu
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                                                                                                                                                                                  Tang
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Claim 1; SEQ ID No

27820; 103pp; English

The invention relates to isolated polynucleotide (I) and CC polypeptide (II) sequences. (I) is useful as hybridisation probes, CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome CC and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags CC for identifying expressed genes. (I) is useful in gene therapy techniques CC (II). (II) is useful for generating antibodies against it, detecting or CC (II). (II) is useful for generating antibodies against it, detecting or CC (II). (II) and its binding partners are useful in medical activity of (II) and (II) are useful for treating core a food supplement. (II) and its binding partners are useful in medical CC imaging of sites expressing (II). (I) and (II) are useful for treating CC disorders involving aberrant protein expression or biological activity. CC The polypeptide and polypucleotide sequences have applications in CC diagnostics, forensics, gene mapping, identification of mutations CC responsible for genetic disorders or other traits to assess blodiversity and to produce other types of data and products dependent on DNA and CC amino acid sequences. AAS64197-AAS94564 represent novel human CC specification, but was obtained in electronic format directly from WIPO cast for whom the product of the printed of the sequences of the invention. ftp.wipo.int/pub/published\_pct\_sequences.

Sequence 2623 BP; 515 A; 713 C; 719 G; 659 T; 17 other;

Query Match Best Local S

Conservative

91.98;

Score 1275.4; Mismatches No. 0;

DВ 40; 23;

2623; 8 Gaps

Indels Length

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                                                                            GGCTGCGTGGGGGCTCTGCGGGAGAATATCTGCTTGCTCAACTTTTTCTGTGGCACCATC
                                                                                                                     TGGGCATGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAGTGACCCGGATGCATGGA
                                                                                                                                                                               TGGGCATGGAGCGAAAAGGGTGTGTGCTGTCCGACCTCACCAAAGTGACCCGGATGCATGGA
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GTGAGGGACCGGTTCCGGGAGTTCTTCGAGAGCAACATCAAGTCCTACCGGGACGATATC
                                      GTGCTCATCTTCCTGGAGCTGGCTGTGGCCGAGCTGGCCTTCCTGTTCCAGGACTGG
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Human

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RESULT 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; secreted protein; cancer; tumour; developmental abnormality; foetal deficiency; blood disorder; immune system disorder; inflammating autoimmune disease; allergy; Alleheimer's disease; cognitive disorder; schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder; atherosclerosis; diabetes; cardiovascular disorder; kidney disorder; digestive disorder; endocrine disorder; infection; AIDS; leukaemia;
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(HUMA-) HUMAN GENOME SCI

Ruben SM, Olsen HS, Lafleur DW, Florence K, Shi Y, You Endress e K, Ni J, Rosen Young PE, Wei F, ss GA, Ebner R; Brewer Carter LA, Soppet Moore pet DR; PA;

P-PSDB; 2000-062296/05. DB; AAY76266.

New isolated human genes and the secreted polypeptides they encode, useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders

Disclosure; Page 427-428; 475pp; English.

CC This sequence was found to be present on human chromosome 10.

CC ANY76124 to ANY7623 represent the secreted proteins encoded by the 97 cc human genes. The genes and their corresponding secreted polypeptides are useful for preventing, treating or ameliorating medical conditions, and the conditions of the growth or gene therapy. Also pathological conditions can be considered by determining the amount of the new penes. Specific cor by determining the presence of mutations in the new genes. Specific cores are described for each of the 97 genes, based on which tissues they care most highly expressed in, and include developing products for the care most highly expressed in, and include developing products for the care for treatment of cancer; tumours, developmental abnormalities cand foetal deficiencies, blood disorders, diseases of the immune system, cautoimmune diseases, inflammation, allergies, Alzheimer's and cognitive disorders, schizophrenia, arthritis, asthma, psoriasis, sepsis, skin collypeptides are also useful for identifying their binding partners. The sequences shown in AAY76224 to AAY76424 represent fragments of the AAZ65250 to AAZ65350 represent 97 isolated human proteins secreted protein 10. genes

Sequence 323 Α, 469 ç, 488 ç, 387 Τ; 0

Query Match
Best Local Similarity
Matches 1309; Conserv Conservative 95.8%; Score 1189.6; Pred. No. 3e-3 No. DB 21; Indels Length 1667; 16; Gaps 8;

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                  GGTGCTGAAGACCAAGGGTCCCCCTTGTTACCTGCCCAAACTTGTGACTGCATCCCTCTG
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Secretory proteins play important roles in the proliferation control, differentiation induction, the material transport and the biophylaxis cells. Membrane proteins have important roles as signal receptors, ion channels and transporters. The present sequence is the coding sequence for a human protein which has at least one hydrophobic domain. The protein encoded by the present sequence may be a secretory or a membra

sequence

of.

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RESULT 7
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ID AAA6
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27-APR-1999;
19-MAY-1999;
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                                                                                                                                                                                                                    Proteins comprising hydrophobic regions, such as secretory and membrane proteins, useful in research and diagnostics and having various activities e.g. immunomodulatory, antiinflammatory, chemokinetic, hemostatic, thrombolytic
                                                                                                                                                                                                                                                                                                                                                                                                                    Kato
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22-DEC-1998;
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                                                                                                   CAGTGTGGATATGATGTCAGGATTCAGCTGAAGAGCAAGTGGGATGAGTCCATCTTCACG
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                                                                                       AAGTGCGGGGTCCCCTTCTCCTGCTGCGTGCCAGATCCTGCGCAAAAAAGTTGTGAACACA
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Pred. No. 1.1e-249;
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dulator; expression modulator; cancer; immur
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Claim 2;

Page

220;

332pp;

English

disorders

Nucleic acids encoding secreted TANGO and MANGO polypeptides, for the prevention, diagnosis and treatment of, e.g. cancers  $% \left( 1\right) =\left( 1\right) +\left( 1\right)$ 

immune

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CC The invention relates to novel secreted/transmembrane proteins, and Cnucleic acids encoding them. The novel proteins are designated TANGO 339, CC TANGO 353, TANGO 358, TANGO 365, TANGO 368, TANGO 369, TANGO 383, TANGO CC 393, TANGO 402, MANGO 346 and MANGO 349 and are of human origin, and a CC murine TANGO 393 is also included within the scope of the invention. The CC invention also encompasses fragments and variants of the proteins of the invention, and nucleic acids encoding them. The invention additionally CC relates to host cells comprising a nucleic acid of the invention; methods (CC for the production of a protein of the invention; and antibody specific CC for a protein of the invention; and methods for detecting a protein or CC nucleic acid of the invention; and methods for detecting a protein or CC bind to or modulate the activity of a protein of the invention. The novel CC secreted proteins, nucleic acids encoding them, and antibodies against them may be used in the prevention, diagnosis and treatment of diseases CC associated with inappropriate expression or activity of the secreted proteins. The secreted proteins of the invention may also be used to CC identify modulators of expression or activity, which may be used to the treatment of disorders associated with the proteins of the invention. CC invention e.g., cancers and immunological disorders. The present cc sequence represents CDNA encoding human TANGO protein of the invention.
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                           CC The invention relates to novel secreted/transmembrane proteins, and convolute acids encoding them. The novel proteins are designated TANGO 339, CC TANGO 353, TANGO 358, TANGO 365, TANGO 368, TANGO 369, TANGO 383, TANGO 37 ANGO 37 ANGO 389, TANGO 589, TANGO 389, TANGO 589,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GACTGGGACCTCAACGTCTACTTCAATTGCAGCGGTGCCAGCTACAGCCGAGAGAAGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                         CAAAACCTCATCGACTCCCTTCAGAAAGCTAACCAGTGCTGTGGCGCATATGGCCCTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATCGAGGCAGTGAAGGCCGGCCATCACTTCTGA
                                                                                                                                                                                                         GGGGTCCCCTTCTCCTGCTGCGTGCCAGATCCTGCGCAAAAAGTTGTGAACACACAGTGT
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                                            variant cDNA ORF,
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The invention relates to novel secreted/transmembrane proteins, and convolute acids encoding them. The novel proteins are designated TANGO 339, CC TANGO 353, TANGO 358, TANGO 365, TANGO 368, TANGO 369, TANGO 383, TANGO 383, TANGO 393, TANGO 393, TANGO 368, TANGO 369, TANGO 383, TANGO 393, TANGO 394, and are of human origin, and a combined convention and are of human origin, and a convention, and nucleic acids encoding them. The invention additionally convention, and nucleic acids of the invention; methods convention, an antibody specific convention of the invention; methods for detecting a protein or convention of the invention, and methods of identifying agents which convention or activity of a protein of the invention. The novel secreted proteins, nucleic acids encoding them, and antibodies against convention may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression or activity of the secreted conventions. The secreted proteins of the invention may also be used to identify modulators of expression or activity, which may be useful in the treatment of disorders and immunological disorders. The present convention e.g., cancers and immunological disorders. The present convention of the invention of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 200
P-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                     Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fraser CC, Pan Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-JUL-1999;
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 Sequence 813
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2001-138647/14
DB; AAB87135.
                                                                                                                                                                                                                                                                                                                                                                                                                     2; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sharp JD,
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BP; 164 A; 213
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 C; 235 G; 201
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 T; 0 other;
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Query Match
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Matches 811
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AGCTACAACATCATCTTCTGGTTGGCTGGAGTTGTCTTCCTTGGAGTCGGGCTGTGGGCA 186
                                                                                                                                                                                     ATGCACTATTATAGATACTCTAACGCCAAAGTCAGCTGCTGGTACCAAGTACCTCCTTTTC 126
                                                                                   ATGCACTATTATAGATACTCTAACGCCAAGGTCAGCTGCTGGTACAAGTACCTCCTTTAC
                                                                                                         TGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAAGTGACCCGGATGCATGGAATCGAC
                                                                                                                              AGCTACAACATCATCTTCTGGTTGGCTGGAGTTGTCTTCCTTGGAGTCGGGCTGTGGGCA
                                                                                                                                                                                                                  58.3%;
nilarity 99.8%;
Conservative
                                                                                                                                                                                                                 Score 809.8; DB 22, Pred. No. 2.7e-203; 0; Mismatches 2;
                                                                                                                                                                                                                    Indels
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Db Ωy 멍 δÃ Дb

367

ATCTTCTTCCTGGAGCTGGCTGTGGCCGTGCCTTCCTGTTCCAGGACTGGGTGAGG

426

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В Qy

DB 22;

Length

813;

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RESULT 11
AAF90658
ID AAF90658
XX AAF9
XX AAF9
XX AAF9
XX Sect
XX Sect
XX Sect
XX Sect
XX W Cytc
XX WO2(
XX HOMM
AN ACT
PD 08-1
YX 31-(
XX AF9
PA (MI)
XX WPI
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PAN WPI
OR WPI
OR P-P
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                                  Nucleic acids encoding secreted TANGO and MANGO polypeptides, useful for the prevention, diagnosis and treatment of, e.g. cancers and imm disorders - \,
                                                                                                                                                                 Fraser Pan Y;
                                                                                                                                                                                                                                                                                                                                                                                                                              Secreted protein; transmembrane protein; TANGO; human; drug screening; activity modulator; expression modulator; cancer; immunological disorder; cytostatic; immunomodulatory; gene therapy; ss.
   Claim
                                                                                                                                                                                                                                                                                         31-JUL-2000; 2000WO-US20935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human TANGO 339 A40V variant cDNA ORF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAF90658 standard; cDNA; 813
                                                                                                                                                                                                                                                       30-JUL-1999;
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                                                                                                           PSDB;
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DB; AAB87136.
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282; 332pp;
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Best Local S
Matches 811
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The invention relates to novel secreted/transmembrane proteins, and convolute acids encoding them. The novel proteins are designated TANGO 339, CC TANGO 353, TANGO 355, TANGO 365, TANGO 368, TANGO 383, TANGO 383, TANGO 383, TANGO 383, TANGO 383, TANGO 368, TANGO 368, TANGO 383, TANGO 3
Sequence 813 BP; 163 A; 212 C; 235 G; 203 T; 0 other;
                                                                                                                                                                                                 the treatment of disorders associated with the proteins of the invention e.g., cancers and immunological disorders. The present sequence represents cDNA encoding human TANGO protein of the invention
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Local Similarity

811;

Conservative

0;

2.7e-203; nes 2; DB 22;

Indels Length

Gaps

0;

813; 0;

58.3%;

727 601 667 541 607 481 547 421 487 361 427 301 367 241 307 181 247 121 187 127 61 67 ۳ GACTGGGACCTCAACGTCTACTTCAATTGCAGCGGTGCCAGCTACAGCCGAGAGAAGTGC GGATATGATGTCAGGATTCAGCTGAAGAGCAAGTGGGATGAGTCCATCTTCACGAAAGGC GGGGTCCCCTTCTCCTGCTGCGTGCCAGATCCTGCGCAAAAAGTTGTGAACACACAGTGT GACCGGTTCCGGGAGTTCTTCGAGAGCAACATCAAGTCCTACCGGGACGATATCGATCTG GACCGGTTCCGGGAGTTCTTCGAGAGCAACATCAAGTCCTACCGGGACGATATCGATCTG ATCTTCTTCCTGGAGCTGGCTGTGGCCGTGCTGCCTTCCTGTTCCAGGACTGGGTGAGG ATCTTCTTCCTGGAGCTGGCTGTGGCCGTGCTGGCCTTCCTGTTCCAGGACTGGGTGAGG GTGGGGGCTCTGCGGGAGAATATCTGCTTGCTCAACTTTTTCTGTGGCACCATCGTGCTC GTGGGGGCTCTGCGGGAGAATATCTGCTTGCTCAACTTTTTCTGTGGCACCATCGTGCTC CCTGTGGTGCTGGTCCTGATGGTGGGGGGTGGTGATGTTCACCCTGGGGTTCGCCGGCTGC TGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAAGTGACCCGGATGCATGGAATCGAC AGCTACAACATCATCTTCTGGTTGGCTGGAGTTGTCTTCCTTGGAGTCGGGCTGTGGGCA 186 ATGCACTATTATAGATACTCTAACGCCAAGGTCAGCTGCTGCTACAAGTACCTCCTTTTC ATGCACTATTATAGATACTCTAACGCCAAAGTCAGCTGCTGGTACAAGTACCTCCTTTTC 126 CCTGTGGTGCTGGTCCTGATGGTGGCGTGGTGATGTTCACCCTGGGGTTCGCCGGCTGC TGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAAGTGACCCGGATGCATGGAATCGAC 246 AGCTACAACATCATCTTCTGGTTGGCTGGAGTTGTCTTCCTTGGAGTCGGGCTGTGGGTA 120 Score 809.8; I Pred. No. 2.7e 0; Mismatches 546 426 366 306 180 60 786 726 600 666 540 606 480 420 486 360 300 240

Query Match Best Local

Similarity

58.3**%**; 99.8**%**;

Score 809.8; DB 22 Pred. No. 2.7e-203;

Length

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ARESULT 12

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                                                                                                  CC The invention relates to novel secreted/transmembrane proteins, and concluded acids encoding them. The novel proteins are designated TANGO 339, CC TANGO 353, TANGO 356, TANGO 365, TANGO 368, TANGO 369, TANGO 383, TANGO CC 393, TANGO 340, MANGO 346 and MANGO 349 and are of human origin, and a cc invention also encompasses fragments and variants of the proteins of the invention. The cc invention, and nucleic acids encoding them. The invention additionally crelates to host cells comprising a nucleic acid of the invention; methods for the production of a protein of the invention; and nucleic acid of the invention of the invention; and methods for detecting a protein or cc nucleic acid of the invention; and methods for detecting a protein or concluded proteins, nucleic acids encoding them, and antibodies against them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression or activity of the secreted concluditors of expression or activity, which may be useful in the treatment of disorders associated with the proteins of the invention of the invention e.g., cancers and immunological disorders. The present contracts of the invention of the invention of the invention of the invention of the present contracts of the invention of the invention of the invention of the present contracts of the invention of the useful in the proteins of the invention of 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic acids encoding secreted TANGO and MANGO polypeptides, useful for the prevention, diagnosis and treatment of, e.g. cancers and imm disorders -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-JUL-2000; 2000WO-US20935
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 2; Page 283; 332pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (MILL-) MILLENNIUM PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-JUL-1999;
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                                                                           represents cDNA encoding human TANGO protein of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sharp JD,
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expression modulator; cancer; immunological disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kirst SJ,
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Sequence

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AAA93675
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SECX protein; human; secreted; membrane-associated; proliferation regulator; differentiation regulator;

cancer;

DNA

non-malignant tumour;

Human tetraspanin-like protein splice variant SECX 3911675-2

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              ATCGAGGCAGTGAAGGCCGGCCATCACTTCTGA
                                                        GGATATGATGTCAGGATTCAGCTGAAGAGCAAGTGGGATGAGTCCATCTTCACGAAAAGGC
                                                                                                                                                                                                                                                                                                         GACTGGGACCTCAACGTCTACTTCAATTGCAGCGGTGCCAGCTACAGCCGAGAGAAGTGC
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                                                                                      ATCGCCATCTCGCTGTTGCAGATATTTGGCATCTTCCTGGCAAGGACGCTGATCTCAGAC
                                                                                                                   GGATATGATGTCAGGATTCAGCTGAAGAGCAAGTGGGATGAGTCCATCTTCACGAAAAGGC
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                                                                                                                                                                                                                                                               predisposition to, a disease associated with altered levels of SECX CC proteins and nucleotides. The SECX proteins are also useful to screen CC compounds that modulate SECX activity or expression. The interaction of CC a SECX protein with other cellular proteins may be useful to modulate CC the activity of a partner protein, cellular proliferation, cellular CC differentiation and cell survival. SECX nucleotides are useful for the CC recombinant expression of SECX protein, and may be used detect SECX wmnNA CC or genetic lesions in the SECX gene. They may also be used to modulate CC sECX expression (e.g., using antisense oligonucleotides). SECX nucleic CC acid sequences are also useful for identifying a cell or tissue type in CC a biological sample, and in forensic biology. SECX primers or probes are CC useful for detecting the presence of SECX nucleotides and for screening tissue cultures for contamination. Diseases that may be treated or CC prevented using SECX proteins or nucleotides and for screening CC colorectal carcinoma, prostate cancer), benign tumours, immune disorders (including autoimmune diseases, transplant rejection, allergies, AIDS), CC infections, inflammatory disorders, arthritis, haematopoietic disorders.
                                                                                                                                                                                          Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                        skin disorders, cardiovascular disorders, atherosclerosis, restenosis, neurological diseases (e.g., Alzheimer's disease), trauma (e.g., surgical or traumatic wounds, spinal cord injury), and skeletal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequences AAA93616-A93631 and AAA93673-A93676 represent nucleic acids which encode human SECX proteins (AAB23029-B23048). The SECX proteins of the invention are either secreted or membrane-associated proteins and act as regulator of cellular proliferation and differentiation. SI proteins or nucleotides are useful for diagnosing the presence of or
                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel human membrane associated or secreted polypeptides and polynucleotides useful for diagnosis, prevention and treatment of pathological states such as cancer, immune, cardiovascular and neurological disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             neurological disease; Alzheimer's disease; trauma; wounding; spinal cord injury; skeletal disorder; cytostatic; immunosuppressive; anti-HIV; antiinflammatory; antiarthritic; antiarteriosclerotic; neuroprotective; vulnerary; antiallergic; antimicrobial; cardiant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 3; Fig 8B; 151pp; English.
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infection; inflammatory disorder; arthritis; haematopoietic disorder;
skin disorder; cardiovascular disorder; atherosclerosis; restenosis;
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                     GCTCTGC-GGGAGAATATCTGCTTGCTCAACTTTTTCTGTGGCACCATCGTGCTCATCTT
                                                                     GTGCTGGTCCTGATGGTGGGCGTGGTGATGTTCACCCTGGGGTTCGCCGGCTGCGTGGGG
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                                                                                                                                                                    806;
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                                                                                                                                                                    Conservative
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                                                                                                                                                                                  56.3%;
99.1%;
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                                                                                                                                                             Score 781; DB 21; I
Pred. No. 1.1e-195;
Pred. No. 5;
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                                                                                                                                                                                                          Length 816;
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RESULT 14
AASB0667
ID AASB0
XX AASB0
AC AASB0
XX 13-FE
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XX Human
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TGCTGGTGCTGAAGACCAAGGGTCCCCCTTGTT
                                         TGCTGGTGCTGAAGACCAAGGGTCCCCCTTGTT
                                                                                                        ACCCCCAGAGCCAGTGCCCCATCTTAAGCATCAGCGTGACCTGTGCTCTGTTTCTGCT
                                                                                                                                                                        GCTGGGAGGCCAGAGCCTTTCTCTGCCATCAGCCCTACGTCCAGAGGGAGAGGAGCCGAC
                                                                                                                                                                                             GCTGGGAGGCCAGAGCCTTTCTCTGCCATCAGCCCTACGTCCAGAGGGAGAGGAGCCGAC
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WO200175067-A2
                                                                                                                                                                                          DNA encoding
30-MAR-2001;
                                                                                                                                         Human; chromosome mapping; gene mapping;
food supplement; medical imaging; diagno;
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                                                                                                                                                                                                                                                                                                    AAS80667 standard;
                                  11-0CT-2001.
                                                                                                                                       supplement;
2001WO-US08631
                                                                                                                                                                                          novel
                                                                                                                                                                                                                               (first
                                                                                                                                                                                          human diagnostic protein #16471.
                                                                                                                                                                                                                                                                                                    CDNA;
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                                                                                                                                     apping; gene therapy; forensic diagnostic; genetic disorder;
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forensic;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to isolated polynucleotide (I) and CC polypeptide (II) sequences. (I) is useful as hybridisation probes, CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome CC and gene mapping, and in recombinant production of (II). The CC inventorial activity of (II) or to treat disease states involving CC for identifying expressed genes. (I) is useful in gene therapy techniques CC in restore normal activity of (II) or to treat disease states involving CC (II), (II) is useful for generating antibodies against it, detecting or CC quantitating a polypeptide in tissue, as molecular weight markers and as CC a food supplement. (II) and its binding partners are useful in medical CC diagnostics expressing (II). (I) and (II) are useful for treating CC disorders involving aberrant protein expression or biological activity. CC The polypeptide and polynucleotide sequences have applications in CC diagnostics, forensics, gene mapping, identification of mutations CC responsible for genetic disorders or other traits to assess biodiversity CC and to produce other types of data and products dependent on DNA and CC diagnostic coding sequences of the invention.

CC Note: The sequence data for this pattent did not appear in the printed CC specification, but was obtained in electronic format directly from WIPO CC at ftp. wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
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                               CTTTTCAGCTACAACATCATCTTCTGGTTGGCTGGAGTTGTCTTCCTTGGAGTCGGGCTG 180
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                                                                                                                       GGCTGCGTGGGGGGCTCTGCGGGAGAATATCTGCTTGCTCAACTTTTTCTGTGGCACCATC 360
                                                                                                                                                                      ATCGACCCTGTGGTGCTGGTCCTGATGGTGGCCGTGGTGATGTTCACCCTGGGGTTCGCC
                                                                                                                                                                                      ATCGACCCTGTGGTGCTGGTCCTGATGGTGGGCGTGGTGATGTTCACCCTGGGGTTCGCC
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                                                                                                                                                                                                                                                             TGGGCATGGAGCGAAAAGGGTGTGCTGCTCCGACCTCACCAAAGTGACCCGGGATGCATGGA 240
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98.8%;
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Pred. No. 2.3
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22-DEC-1998;
16-MAR-1999;
27-APR-1999;
19-MAY-1999;
Secretory proteins play important roles in the proliferation control, t differentiation induction, the material transport and the blophylaxis cells. Membrane proteins have important roles as signal receptors, ion channels and transporters. The present sequence is the coding sequence for a human protein which has at least one hydrophobic domain. The protein encoded by the present sequence may be a secretory or a membran protein. The encoded protein may have cytokine and cell proliferation/differentiation activity, immune stimulating or suppressing activity, haematopolesis activity, tissue growth activity, haematopolesis activity, chemotactic/chemokinetic activity, haemacopolesis activity, chemotactic/chemokinetic activity, haemacopolesis
                                                                                                                                                                                                              Proteins comprising hydrophobic regions, such as secretory and membrane proteins, useful in research and diagnostics and having various
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               biophylaxis; signal receptor; ion channel; transporter; immunostimulant; immunosuppressant; haematopolesis regulator; chemotactic; chemokinetic; haemostatic; thrombolytic; anti-inflammatory; tumour inhibition; autionmmune disease; Alzheimer's disease; Parkinson's disease; cancer;
                                                                                                                                                        Claim 3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
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                                                                                                                                                                                 activities e.g. immunomodulatory, antiinflammatory, hemostatic, thrombolytic -
                                                                                                                                                                                                                                                          P-PSDB;
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98JP-0364315.
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and thrombolytic activity, anti-inflammatory activity and tumour inhibition activity. The present sequence could therefore be used for treatment of autoimmune disease, Alzheimer's disease, Parkinson's disease, and cancer via gene therapy.
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          ATCGAGGCAGTGAAGGCCGGCCATCACTTC 876
                                                                                    GGATATGATGTCAGGATTCAGCTGAAGAGCAAGTGGGATGAGTCCATCTTCACGAAAGGC
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                                           ATCGCCATCTCGCTGTTGCAGATATTTGGCATCTTCCTGGCAAGGACGCTGATCTCAGAC
                                                      ATCGCCATCTCGCTGTTGCAGATATTTGGCATCTTCCTGGCAAGGACGCTGATCTCAGAC
                                                                                                                                GGATATGATGTCAGGATTCAGCTGAAGAGCAAGTGGGATGAGTCCATCTTCACGAAAGGC
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milarity 78.8%;
Conservative
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Search completed: December 19, Job time : 268 secs

2002, 03:59:34

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Minimum DB :
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-Q=/ggn2_1/USPTO_spool/US09905674/runat_16122002_111845_6745/app_query.fasta_1.455
-Q=/ggn2_1/USPTO_spool/US09905674/runat_16122002_111845_6745/app_query.fasta_1.455
-DB=N_Geneseq_101002 -OFMT=fastap -SUFFIX=rng -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS-bits -STARF=1 -END=-1 -MATRIX=blosum62 -TRRNS=buman40 cdi
-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE-LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=-00 -MINLEN=0 -MAXLEN=200000000
-USER=US09905674_@CGN_1_1_125_@runat_16122002_111845_6745 -NCPU=6 -ICPU=3
-NO_XLPXY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPOP=6 -FGAPEXT=7
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Maximum Match 100%
Listing first 45 summaries
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Ygapop 10.0 , Ygapext
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Copyright (c) 1993 - 2002 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being primand is derived by analysis of the total score distribution. printed,

## Query SUMMARIES

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ALIGNMENTS

RESULT 1 AAF90629

AAF90629 standard; cDNA; 813 BP.

AAF90629;

04-MAY-2001 (first entry)

Human TANGO 339 cDNA ORF, SEQ ID NO:2.

Secreted protein; transmembrane protein; TANGO; human; drug screening; activity modulator; expression modulator; cancer; immunological disorder; cytostatic; immunomodulatory; gene therapy; ss.

Homo sapiens.

WO200109162-A2. B

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Crime invention relates to novel secreted/transmembrane proteins, and concluded acids encoding them. The novel proteins are designated TANGO 339, Cr TANGO 353, TANGO 358, TANGO 355, TANGO 368, TANGO 369, TANGO 383, TANGO CC 393, TANGO 402, MANGO 346 and MANGO 349 and are of human origin, and a community management of the invention. The compasses fragments and variants of the invention also encompasses fragments and variants of the protein of the comprising a nucleic acid of the invention; methods comprisely a nucleic acid of the invention; methods comprisely a nucleic acid of the invention; methods comprisely a nucleic acid of the invention of the invention; and methods for detecting a protein or concluded acid of the invention; and methods of identifying agents which comprisely a nucleic acid of the invention. The novel secreted proteins, nucleic acids encoding them, and antibodies against them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression or activity of the secreted concluded the proteins of the invention may also be used to conclude the concluded proteins of the invention activity, which may be used to conclude the concluded accorded a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acids encoding secreted TANGO and MANGO polypeptides, useful for the prevention, diagnosis and treatment of, e.g. cancers and immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-138647/14.
P-PSDB; AAB87034, AAB87035, AAB87036
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                 ValGlyAlaLeuArgGluAsnIleCysLeuLeuAsnPhePheCysGlyThrIleValLeu
                                                                                             ProValValLeuValLeuMetValGlyValValMetPheThrLeuGlyPheAlaGlyCys
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1234..1237
                                                                                                                                                       Location/Qualifiers 67..879
                                                                                                                                                                                                                   protein, TSPAN-7 encoding cDNA
                                                                                                          /note=
                                                                                                                                                                                           protein; TSPAN-7; hyperproliferative disorder;
se; prostate cancer; antisense therapy; tumour;
                                                                                                         "These l
                                                                                                                                        "Human TSPAN-7
                                                                                                          bases are given ID NO:1 in Fig :
                                                                                                                                        protein"
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Reinhard CJ, Garcia

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Query Match:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      which are used to reduce or decrease the expression of TSPAN-7 which are used to reduce or decrease the expression of TSPAN-7 in a mammalian cell and for treating hyperproliferative disorder, especially cancer in a mammal. The invention also provides TSPAN-7 polypeptides and polynucleotides. TSPAN-7 inhibitors are useful for inhibiting proliferation of mammalian cells, including tumour cells, for decreasing the side effects of cancer therapy and for treating neoplastic diseases. They are used to modulate TSPAN-7 expression and function in cancer cells, particularly in prostate cancer cells. They are also used in antisense therapy. The present sequence is human TSPAN-7 protein encoding cana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New inhibitor of tetraspan protein useful for reducing the exportantivities of tetraspan protein in cells, and for treating hyperproliferative disorder, especially cancer in a mammal -
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GlyTyrAspValArgIleGlnLeuLysSerLysTrpAspGluSerIlePheThrLysGly
                                          GlyValProPheSerCysCysValProAspProAlaGlnLysValValAsnThrGlnCys
                                                                                                                                                                                                               AspArgPheArgGluPhePheGluSerAsnIleLysSerTyrArgAspAspIleAspLeu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATGCACTATTATAGATACTCTAACGCCAAAGTCAGCTGCTGGTACAAGTACCTCCTTTTC
                                                                                                                                         CAAAACCTCATCGACTCCCTTCAGAAAGCTAACCAGTGCTGTGGCGCATATGGCCCTGAA
                                                                                                                                                                                               GACCGGTTCCGGGAGTTCTTCGAGAGCAACATCAAGTCCTACCGGGACGATATCGATCTG
                                                                                                                                                                                                                                                      ATCTTCTTCCTGGAGCTGGCTGTGGCCGTGCTGGCCTTCCTGTTCCAGGACTGGGTGAGG
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The invention relates to novel secreted/transmembrane proteins, and concluded acids encoding them. The novel proteins are designated TANGO 339, TANGO 353, TANGO 358, TANGO 355, TANGO 368, TANGO 368, TANGO 383, TANGO 37, TANGO 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Secreted protein; transmembrane protein; TANGO; human; drug activity modulator; expression modulator; cancer; immunologicytostatic; immunomodulatory; gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 2; Page 219-220; 332pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acids encoding secreted TANGO and for the prevention, diagnosis and treatments
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P-PSDB; AAB87034, AAB87035, AAB87036
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                                      ATCGAGGCAGTGAAGGCCGGCCATCACTTC
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                                                                                                GGGGTCCCCTTCTCCTGCTGCGTGCCAGATCCTGCGCAAAAAAGTTGTGAACACACAGTGT
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                                                                                                                                                                                                                               Created proteins of the invention relates to novel secreted/transmembrane proteins, and consider a cids encoding them. The novel proteins are designated TANGO 339, CranGO 353, TANGO 358, TANGO 365, TANGO 368, TANGO 369, TANGO 383, TANGO 37, TANGO 37, TANGO 383, TA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nucleic acids encoding secreted TANGO and MANGO polypeptides, useful for the prevention, diagnosis and treatment of, e.g. cancers and immune disorders
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                                            2000WO-US20935
    99US-0365164
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immunological disorder;
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CC The invention relates to novel secreted/transmembrane proteins, and CC nucleic acids encoding them. The novel proteins are designated TANGO 339, CC TANGO 353, TANGO 365, TANGO 368, TANGO 369, TANGO 383, TANGO CC 393, TANGO 340, TANGO 346 and MANGO 349 and are of human origin, and a CC murine TANGO 393 is also included within the scope of the invention. The CC invention and nucleic acids encoding them. The invention additionally CC relates to host cells comprising a nucleic acid of the invention; methods CC for the production of a protein of the invention; an antibody specific CC for a protein of the invention; and methods for detecting a protein or CC nucleic acid of the invention; and methods of identifying agents which CC bind to or modulate the activity of a protein of the invention. The novel CC secreted proteins, nucleic acids encoding them, and antibodies against CC them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression or activity of the secreted proteins. The secreted proteins of the invention may also be used to condentify modulators of expression or activity, which may be used to condentify modulators of expression or activity, which may be used to condentify modulators of expression or activity, which may be used to convention e.g., cancers and immunological disorders. The present CC invention e.g., cancers and immunological disorders. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nucleic acids encoding secreted TANGO and MANGO polypeptides, useful for the prevention, diagnosis and treatment of, e.g. cancers and immune
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim
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DB; AAB87135.
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Alignment Scores: Pred. No.:

Sequence 813

BP;

164 A; 213 C;

235 G; 201

Η.

0 other;

FIEU. NO.:	1.26e-155	Length:	813
Score:	1446.00	Matches:	269
Percent Similarity:	100.00%	Conservative:	<u>,,</u>
Best Local Similarity:	99.63%	<pre>Mismatches:</pre>	0
Query Match:	99.79%	Indels:	0
DB:	22	Gaps:	0
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101 120 300

20 AspArgPheArgGluPhePheGluSerAsnIleLysSerTyrArgAspAspIleAspLeu 140

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                 The invention relates to novel secreted/transmembrane proteins, and nucleic acids encoding them. The novel proteins are designated TANGO TANGO 353, TANGO 358, TANGO 355, TANGO 368, TANGO 369, TANGO 383, T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Secreted protein; transmembrane protein; TANGO; human; drug screening; activity modulator; expression modulator; cancer; immunological disorder; cytostatic; immunomodulatory; gene therapy; ss.
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P-PSDB; AAB87136.
                                                                                                                                                                                                                                                                                                     Fraser CC, Pan Y;
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                                                                                                           Claim
                                                                                                                                                                    Nucleic acids encoding secreted TANGO and MANGO polypeptides, useful for the prevention, diagnosis and treatment of, e.g. cancers and imm
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    402, MANGO 346 and MANGO 349 and
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                                                                                                                                                                                                                                                                                                                       Kirst SJ,
                                                                                                         English.
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    are of human
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                        1 TANGO 339,
883, TANGO
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cc murine TANGO 393 is also included within the scope of the invention. The criver invention also encompasses fragments and variants of the proteins of the criver invention, and nucleic acids encoding them. The invention additionally cc relates to host cells comprising a nucleic acid of the invention; methods for a protein of the invention; and methods for detecting a protein of the invention; and methods of identifying agents which concleic acid of the invention; and methods of identifying agents which concleic acid of the invention; and methods of identifying agents which concleic acid of the invention; and methods of identifying agents which concleic acids proteins, nucleic acids encoding them, and antibodies against the may be used in the prevention, diagnosts and treatment of diseases concerned with inappropriate expression or activity of the secreted proteins. The secreted proteins. The secreted proteins of expression or activity, which may be useful in concerned the invention encoding them as the useful in convention encoding concerns associated with the proteins of the invention encoding convention encoding them are proteins of the invention encoding convention encoding them are proteins of the invention encoding convention.

Sequence 813 BP; 163 A; 212 C; 235 G; 203 T; 0 other;

Scores:

201	Qy 161 AspTrpAspLeuAsnValTyrPheAsnCysSerGlyAlaSerTyrSerArgGluLysCys 180	Oy 121 ASPATGPHEARGGIUPHEPHEGIUSERASNIIELYSSETTYRARGASPASPIIEASPLEU 140	Qy 61 ProvalValLeuWalLeuMetValGlyValValMetPheThrLeuGlyPheAlaGlyCys 80	Db 1 ATGCACTATTATAGATACTCTAACGCCAAGGTCAGCTGCTGGTACAAGTACCTCCTTTC 60  Qy 21 SerTyrAsnIleIlePheTrpLeuAlaGlyValValValGlyLeuTrpAla 40	y: 99.63% Conservative: 0 rity: 99.63% Mismatches: 1 99.72% Indels: 0 22 Gaps: 0 1-270) x AAF90658 (1-813)  y:TyrArgTyrSerAsnAlaLysValSerCysTrpTyrLysTyrLeuLeuPhe 2	Ariginment Scores 1.64e-155 Length: 813 Score: 1445.00 Matches: 269
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В Qy B γQ 망 Qy

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RESULT 7
AAF99 AAF99659
ID AAF99
XX AAF9
XX AAF99
XX Secy
KW Secy
KW Cytc
XX Secy
KW Cytc
XX Secy
KW Cytc
XX Secy
KW ACtil
KW Cytc
XX AAF9
DD 08-F
XX AOI
PD 08-F
XX AOI
PT Fras
PF 31-J
XX AOI
PR WPI;
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                                 The invention relates to novel secreted/transmembrane proteins, and convocation and secretary transmembrane proteins, and convocations are designated TANGO 339, TANGO 353, TANGO 358, TANGO 368, TANGO 369, TANGO 369, TANGO 383, TANGO 383, TANGO 369, TANGO 369, TANGO 383, TANGO 383, TANGO 393, TANGO 393 is also included within the scope of the invention. The convention and nucleic acids encoding them. The invention additionally relates to host cells comprising a nucleic acid of the invention approached for the production of a protein of the invention; an antibody specific for a protein of the invention; methods for detecting a protein or concluded a protein of the invention; methods for detecting a protein or concluded acid of the invention; methods of identifying agents which the proteins, nucleic acids encoding them, and antibodies against them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression or activity of the secreted proteins. The secreted proteins of the invention may also be used to the treatment of disorders associated with the proteins of the invention.

Cc identify modulators of expression or activity, which may be used to the treatment of disorders associated with the proteins of the invention.

Cc sequence represents cDNA encoding human TANGO protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nucleic acids encoding secreted TANGO and MANGO polypeptides, useful for the prevention, diagnosis and treatment of, e.g. cancers and imm disorders.
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P-PSDB; AAB87137.
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Sequence 813 BP; 163 A; 212 C;

236 G;

202 T;

0 other

23-MAR-2000 AAZ65259;

(first entry)

standard;

DNA;

2672

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RESULT 8
AAZ65259
ID AAZ6
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                                                                                                                                          GGATATGATGTCAGGATTCAGCTGAAGAGCAAGTGGGATGAGTCCATCTTCACGAAAGGC
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Pred. No.:
Score:
                               Alignment Scores:
                                                                                                         AAZ65250 to AAZ65350 represent 97 isolated human secreted protein genes. This sequence was found to be present on human chromosome 10.

AAY76124 to AAY76223 represent the secreted proteins encoded by the 97 human genes. The genes and their corresponding secreted polypeptides are useful for preventing, treating or ameliorating medical conditions.

C. e. 9. by protein or gene therapy. Also pathological conditions can be clasposed by determining the amount of the new polypeptides in a sample or by determining the presence of mutations in the new genes. Specific uses are described for each of the 97 genes, based on which tissues they care most highly expressed in, and include developing products for the care most highly expressed in, and include developing products for the care most highly expressed in, and include developing products for the care most highly expressed in a allergies, Alzheimer's and cognitive autoimmune diseases, inflammation, allergies, Alzheimer's and cognitive disorders, schizophrenia, arthritis, asthma, psoriasis, sepsis, skin clasorders, atherosclerosis, diabetes, cardiovascular disorders, kidney clasorders, diagestive/endocrine disorders, infections and AIDS. The collypeptides are also useful for identifying their binding partners.

The sequences shown in AAY76224 to AAY76424 represent fragments of the
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18-MAY-1998;
18-MAY-1998;
18-MAY-1998;
18-MAY-1998;
18-MAY-1998;
18-MAY-1998;
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18-MAY-1998;
18-MAY-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ruben
                                                                                                                                                                                                                                                                                                                                                                                                                                                   New isolated human genes and the secreted polypeptides they encode, useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders -
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Shi Y, Young
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A, Ebner R;
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Wei F, Brewer LA, So
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Length: Matches:
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                                                                                                    Percent Similarity:
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                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                             Claim 1; SEQ ID No
                                                                                                                                                                                                                                                                                                                                       Drmanac
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23-AUG-2000;
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187
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                                              2001-639362/73.
DB; ABG27829.
 TGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAAGTGACCCGGATGCATGGAATCGAC
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imaging; diagnostic; genetic disorder; ss
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                                                                                                                                                                                                                                       dermatological;
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Best Local Similarity:
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neurological disorders -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       colorectal carcinoma, prostate cancer), benign tumours, immune disorders (including autoimmune diseases, transplant rejection, allergies, AIDS), infections, inflammatory disorders, arthritis, haematopoietic disorders skin disorders, cardiovascular disorders, atherosclerosis, restenosis, neurological diseases (e.g., Alzheimer's disease), trauma (e.g., a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequences AAA93616-A93631 and AAA93673-A93676 represent nucleic acids which encode human SECX proteins (AAB23029-B23048). The SECX proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 3; Fig
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RESULT 11
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12-MAY-1998;
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12-MAY-1998;
12-MAY-1998;
18-MAY-1998;
18-MAY-1998;
18-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                              autoimmune disease; allergy; Alzheimer's disease; cognitive disorder schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder; atherosclerosis; diabetes; cardiovascular disorder; kidney disorder; digestive disorder; endocrine disorder; infection; AIDS; leukaemia; therapy; chromosome 10; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; secreted protein; cancer; tumour; developmental abnormality; foetal deficiency; blood disorder; immune system disorder; inflammation; autoimmune disease; allergy; Alzheimer's disease; cognitive disorder; autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human secreted protein gene 10 fragment.
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98US-0085105.

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                                                                                                                                                                                                                                                                                                                                                                 Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CC AA265250 to AA265350 represent 97 isolated human secreted protein genes. CC This sequence was found to be present on human chromosome 10. AAY76124 to AAY76223 represent the secreted proteins encoded by the 97 cc AAY76124 to AAY76223 represent the secreted proteins encoded by the 97 cc useful for preventing, treating or ameliorating medical conditions, cc e.g. by protein or gene therapy. Also pathological conditions can be cidagnosed by determining the amount of the new polypeptides in a sample cc or by determining the presence of mutations in the new genes. Specific cuses are described for each of the 97 genes, based on which tissues they cc are most highly expressed in, and include developing products for the cc diagnosis or treatment of cancer, tumours, developmental abnormalities cand foetal deficiencies, blood disorders, diseases of the immune system, cc disorders, schizophrenia, arthritis, asthma, psoriasis, sepsis, skiney cc disorders, atherosclerosis, diabetes, cardiovascular disorders, kidney cc disorders, digestive/endocrine disorders, infections and AIDS. The corrected mortains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-MAY-1998;
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Olsen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated human genes and the secreted polypeptides they encode, useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1667
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              ValGlyAlaLeuArgGluAsnIleCysLeuLeuAsnPhePheCysGlyThrIleValLeu
                                                      ProValValLeuValLeuMetValGlyValValMetPheThrLeuGlyPheAlaGlyCys
                                                                                                                                TrpSerGluLysGlyValLeuSerAspLeuThrLysValThrArgMetHisGlyIleAsp
[[[]]]
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GTGGGGGCTCTGCGGAGAATATCTGCTTGCTCAACTTTTTCTGTGGCACCATCGTGCTC
                                                                                                                TGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAAGTGACCCGGATGCATGGAATCGAC
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Shi Y, You
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ng PE, Wei F,
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Conservative:
Mismatches:
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Brewer LA, Soppet DR;
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RESULT 12
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                                                                                                                  17-NOV-1998;
22-DEC-1998;
16-MAR-1999;
27-APR-1999;
19-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              haemostatic; thrombolytic; anti-inflammat autoimmune disease; Alzheimer's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; secreted protein; membrane protein; hydrophobic domain; proliferation control; differentiation induction; material transport; biophylaxis; signal receptor; ion channel; transporter; immunosuppressant; haematopolesis regulator; chemotactic; chemokinetic; haemostatic; thrombolytic; anti-inflammatory; tumour inhibition;
                                                                                                                                                                                                                                                                                                             25-MAY-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-905-674-2 (1-270) x AAA60182 (1-639)
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              AspTrpAspLeuAsnValTyrPheAsnCysSerGlyAlaSerTyrSerArgGluLysCys 180
                                                                        GlnAsnLeuIleAspSerLeuGlnLysAlaAsnGlnCysCysGlyAlaTyrGlyProGlu
                                                                                                                                                 Asp \texttt{ArgPheArgGluPhePheGluSerAsnIleLysSerTyrArgAspAspIleAspLeum}
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DB; AAB12120.
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GACTGGGACCTCAACGTCTACTTCAATTGCAGCGGTGCCAGCTACAGCCGAGAGAAGTGC
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22-DEC-1998;
16-MAR-1999;
27-APR-1999;
19-MAY-1999;
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                                                                                                                               Claim
                                                                                                                                                                        hemostatic,
                                                                                                                                                                          activities e.g. immunomodulatory, antiinflammatory, chemokinetic, hemostatic, thrombolytic .
                                                                                                                                                                                                             proteins, useful in research and diagnostics and having various
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Secretory proteins play important roles in the proliferation control, differentiation induction, the material transport and the biophylaxis cells, Membrane proteins have important roles as signal receptors, ion channels and transporters. The present sequence is the coding sequence for a human protein which has at least one hydrophobic domain. The

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                                                                                                                                                        GlyTyrAspValArgIleGlnLeuLysSerLysTrpAspGluSerIlePheThrLysGly
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim
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neurological disorders -
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of the invention are either secreted or membrane-associated proteins or and act as regulator of cellular proliferation and differentiation. SECX proteins or nucleotides are useful for diagnosing the presence of, or cc predisposition to, a disease associated with altered levels of SECX proteins and nucleotides. The SECX proteins are also useful to screen cc compounds that modulate SECX activity or expression. The interaction of ca SECX protein with other cellular proteins may be useful to modulate cc the activity of a partner protein, cellular proliferation, cellular cc differentiation and cell survival. SECX nucleotides are useful for the creombinant expression of SECX protein, and may be used detect SECX mRNA or genetic lesions in the SECX gene. They may also be used to modulate cc SECX expression (e.g., using antisense oligonucleotides). SECX nucleic cacid sequences are also useful for identifying a cell or tissue type in cacid sequences are also useful for identifying a cell or tissue type in the second of the presence of SECX nucleotides and for screening concepted using SECX proteins or nucleotides and for screening concepted using SECX proteins or nucleotides and concepted to the screening concepted using SECX proteins or nucleotides are useful for detecting the presence of SECX nucleotides and for screening concepted using SECX proteins or nucleotides include cancer (e.g. prevented using SECX proteins or nucleotides include cancer (e.g., colorectal carcinoma, prostate cancer), benign tumours, immune disorders (including autoimmune diseases, transplant rejection, allergies, AIDS), Sequences AAA93616-A93631 and AAA93673-A93676 represent nucleic acids which encode human SECX proteins (AAB23029-B23048). The SECX proteins disorders,

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Human; chromosome mapping; gene mapping; gene therapy; food supplement; medical imaging; diagnostic; genetic (
                                DNA encoding novel human diagnostic protein #16471.
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CC polymerase chain reaction (PPR) primers, oligoners, and for chromosome CC polymerase chain reaction (PPR) primers, oligoners, and for chromosome CC polymucleotides are also used in diagnostics as expressed sequence tags CC for identifying expressed genes. (I) is useful in gene therapy techniques CC (II). (II) is useful for generating antibodies against it, detecting or CC quantitating a polypeptide in tissue, as molecular weight markers and as CC a food supplement. (II) and its binding partners are useful in medical CC imaging of sites expressing (II). (I) and (II) are useful for treating CC disorders involving aberrant protein expression or biological activity. The polypeptide and polypucleotide sequences have applications in CC responsible for genetic disorders or other traits to assess biodiversity CC and to produce other types of data and products dependent on DNA and CC diagnostic coding sequences of the invention.

The scarmence data for this pattern did not annear in the printed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated polynucleotide and encoded polypeptides, useful diagnostics, forensics, gene mapping, identification of muta responsible for genetic disorders or other traits and to ass biodiversity .
                                                 Note: The sequence data for this patent did not appear in the specification, but was obtained in electronic format directly
                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes.
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Matches:
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Compugen Ltd.
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RESULT 1 US-09-925-299-2 SEQUENCE 205, PATENT NO. US GENERAL INFOR APPLICANT: R ITILE OF INV CURRENT FILI CURRENT FILI CURRENT FILI PRIOR APPLIC, PRIOR FILING PRIOR FILING PRIOR FILING PRIOR FILING IN UMBER OF SE SOFTWARE: PA SEQ ID NO 205 LENGTH: 1655; LENGTH: 1657 CORRENT SER GRANISH: H FEATURE: NAME/KEY: m LOCATION: (1) OTHER INFORM NAME/KEY: m: LOCATION: (1) OTHER INFORM NAME/KEY: m: COCHER INFORM NAME/KEY: m:		729.5 395.5 396.5 300.5 294.5 294.5 273.5 263.5 263.5 263.5 263.5 264.5 257.5 257.5 257.5 257.5 245.5 245.5 245.5 245.5 245.5 245.5 245.5 245.5 245.5 245.5 245.5 245.5 245.5 245.5 245.5 245.5 246.5	
9.1 9.25-299-205 nence 205, Application US/0 nnt No. US20020055627A1 FRAL INFORMATION: LICANT: ROSEN et al. LICANT: ROSEN et al. LE REFERENCE: PA102 REBUT APPLICATION NUMBER: URENT FILING DATE: 2001-08 OR APPLICATION NUMBER: OF FILING DATE: 1000-03-08 OR APPLICATION NUMBER: 60/07 APPLICATION NUMBER: 60/07 APPLICATION NUMBER: 50/07 APPLICATION DATE: 1999-03-12 BER OF SEQ ID NOS: 1556 TWARE: PatentIn Ver. 2.0 D NO 205 PE: DNA GANISM: Homo Sapiens ATURE: ME/KEY: misc_feature CATION: (1548) HER INFORMATION: n equals ME/KEY: misc_feature ME/KEY: misc_feature ME/KEY: misc_feature ME/KEY: misc_feature		50 39.1 207.3 207.3 119.5 118.9 118.9 118.0 118.0 117.9 117.8 117.8 117.8 117.8 117.8 117.8 117.8 117.8 117.8 118.0 118.0 119.5 117.0 117.0 118.0 118.0 119.0	
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Sequence 3, Application US/09934268
; Patent No. US20020172386A1
; GENERAL INFORMATION:
; APPLICANT: Leiby, Kevin R.
; TITLE OF INVENTION: 23228, A NOVEL HUMAN TETRASPANIN FAM
TITLE OF INVENTION: MEMBER AND USES THEREOF
; FILE REFERENCE: 10448-079001
; CURRENT APPLICATION NUMBER: US/09/934,268
; CURRENT FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: 66/226,612
; PRIOR APPLICATION NUMBER: 66/226,612
; PRIOR FILING DATE: 2000-08-21
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SEQ ID NO 3
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CCCTTCTCCTGCTGCGTCAGGGACCCTGCGGAGGATGTCCTCAACACCCCAGTGTGGCTAC
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US-09-934-268-1
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Patent No. US20020172986A1
GEMERAL INFORMATION:
APPLICANT: Leiby, Kevin R.
TITLE OF INVENTION: 23228, A NOVEL HUMAN TETRASPANIN FAMILY
TITLE OF INVENTION: MEMBER AND USES THEREOF
FILE REFERENCE: 10448-079001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSEQ for Windows Version
SEQ ID NO 1
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CURRENT FILING DATE: 2001-08-21
PRIOR APPLICATION NUMBER: 60/226,612
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APPLICANT: Shi et a
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LENGTH: 2538
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                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: PCT/US01/11130
PRIOR FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: 60/195,336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/972,970 CURRENT FILING DATE: 2001-10-10
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NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILE REFERENCE: PT056P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: TM4SF Receptor Polynucleotides, Polypeptides, and Antibodies
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ORGANISM: Homo
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                                  APPLICANT: MCCOy, John M.
APPLICANT: LaVallie, Edward R
APPLICANT: Collins-Racie, Lisc
APPLICANT: Evans, Cheryl
APPLICANT: Evans, Cheryl
APPLICANT: Treacy, Maurice
APPLICANT: Treacy, Maurice
APPLICANT: Steininger II, Rob
APPLICANT: Steininger II, Rob
APPLICANT: Spaulding, Vikki
APPLICANT: Wong, Gordon G.
APPLICANT: Wong, Gordon G.
APPLICANT: Clark, Hilary
APPLICANT: Fechtel, Kim
APPLICANT: Fechtel, Kim
APPLICANT: Fechtel, Kim
APPLICANT: STEININGER: 6055-64X

FILE REFERENCE: 6055-64X
                                                                                                                                                                                                                                                 Sequence 169, Application US/09729674 Patent No. US20010039335A1 GENERAL INFORMATION:
CURRENT APPLICATION NUMBER: US/09/729,674
CURRENT FILING DATE: 2000-12-04
PRIOR APPLICATION NUMBER: 09/539,330
                                                                                                                                                                                                                                   APPLICANT: Jacobs, Kenneth
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                                                                                    Merberg, David
Treacy, Maurice
Agostino, Michael J.
Steininger II, Robert
Spaulding, Vikki
Wong, Gordon G.
Clark, Hilary
                                                                                                                                                                               McCoy, John M.
LaVallie, Edward R.
Collins-Racie, Lisa /
Evans, Cheryl
                                          Fechtel, Kim
Genetics Institute, Inc.
SECRETED PROTEINS
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Best Local Similarity:
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; ORGANISM: Homo
US-09-729-674-169
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SEQ ID NO 169
LENGTH: 1110
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Ala
                                                                   GluSerTrpLeuProArgAsnIleTyrIleValAlaGlyValPheIleAlaIleSerLeu
                                                                                               CAAAAACCAGAAGTTGACCAGCAGATTGTAATCTACACGAAAGGCTGTGTGCCCCAGTTT
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                                                         ATATATTCCAATGCA-----AGTCGAGAGCGATGTGGCGTTCCATTCTCC
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US-09-875-440-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1, Application US/09875440 Patent No. US20020156035A1
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APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Randazzo, Filippo
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
TITLE OF INVENTION: NEOPLASTIC DISEASE USING NET-4 MODULATORS
FILE REFERENCE: PP-01701, 002/200130, 522
CURRENT APPLICATION NUMBER: US/09/875,440
CURRENT FILING DATE: 2001-06-05
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APPLICANT: Jefferson, Anne B.
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OTHER INFORMATION: assay
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ORGANISM: Homo
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 ValTyrPheAsnCysSer 171
                                                                                                   PhePheGluSerAsnIleLysSerTyrArgAspAspIleAspLeuGlnAsnLeuIleAsp 145
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                             TTCACCCAGGAATATTGGCAGTGCTGTGGGGCTTTTTGGAGCTGATGGATTGGAACCTAAAT
                                        SerLeuGlnLysAlaAsnGlnCysCysGlyAlaTyrGlyProGluAspTrpAspLeuAsn 165
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Winter, Jill A.
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RESULT 7
US-10-052-586-277
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APPLICANT:
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PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR FILING DATE: 1997-10-17
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APPLICANT:
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APPLICATION NUMBER: 60/066120
FILING DATE: 1997-11-21
APPLICATION NUMBER: 60/066466
APPLICATION NUMBER: 60/0
FILING DATE: 1998-03-11
APPLICATION NUMBER: 60/0
FILING DATE: 1998-03-20
                                                                                                                                                FILING DATE: 1997-12-17
APPLICATION NUMBER: 60/068017
FILING DATE: 1997-12-18
                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/069335 FILING DATE: 1997-12-11 APPLICATION NUMBER: 60/069425
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FILING DATE: 1997-10-31
APPLICATION NUMBER: 60/065311
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APPLICATION NUMBER: 60/063870
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LeuGlyValGlyLeuTrpAlaTrpSerGluLysGlyValLeuSerAspLeuThrLysVal 53
                                                 TGGCTCAAGTTTTCACTTATCATCTATTCCACCGTGTTCTGGCTGATTGGGGGCCCTGGTC
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Conservative:
Mismatches:
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Gaps:
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OR APPLICATION NUMBER: 60/081070
OR FILING DATE: 1998-04-08
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OR APPLICATION NUMBER: 60/081838
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60/087609

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FILING DATE: APPLICATION |

APPLICATION NUMBER: 60/087759 FILING DATE: 1998-06-02

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APPLICANT: Mannion, Jane
APPLICANT: Benson, Darrin R.
APPLICANT: Benson, Darrin R.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THE
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THE
TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
FILE REFERENCE: 210121.523
CURRENT APPLICATION NUMBER: US/09/864,864
CURRENT FILING DATE: 2001-05-23
NUMBER OF SEQ ID NOS: 341
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SEQ ID NO 279
LENGTH: 873
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ORGANISM: Homo sapiens
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Algate, Paul A.
Fling, Steve P.
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                                                                                                                                                                                                                                                                                                                                                             Harlocker,
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Best Local Similarity:
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                                                         Sequence 31, Application US/09823356 Patent No. US20010025098A1 GENERAL INFORMATION:
               APPLICANT: Tang, APPLICANT: Banda APPLICANT: Lal,
   APPLICANT:
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                                                                                                                                                                        PheLeuAlaArgThrLeuIleSerAspIleGluAla 263
                                                                                                                                                                                                                                AsnIleTyrIleValAlaGlyValPheIleAlaIleSerLeuLeuGlnIlePheGlyIle
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Hillman, Jennifer L.
               Bandman, Olga
Lal, Preeti
                                           Y. Tom
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; LOCATION: 959
; OTHER INFORMATION: a,
US-09-823-356-31
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LENGTH: 1175
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CURRENT FILLING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 09/039,307
PRIOR FILING DATE: 1998 March 13
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SOFTWARE: PERL Program
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TITLE OF INVENTION: HUMAN MEMBRANE SPANNING
FILE REFERENCE: PF-0489-1 CON
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ORGANISM: Homo sapiens
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: misc_feature
OTHER INFORMATION: Inc
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ProAlaGlnLysValValAsnThrGln---CysGlyTyrAspValArgIleGlnLeuLys 209
                                  CTGGGGGAGAAC-----
                                                                                                ATGCGATGCTGTGTGTCACTGACTACACAGACTGG
                                                                                                                                                             CTGTACCACACCGAGAACAACGTGGGGGCTGAAGAACGCCTGGAACATCATCCAGGCTGAG
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Guegler, Karl J.
Kaser, Matthew R.
Baughn, Mariah R.
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Matches:
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Indels:
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US-09-783-590-10353
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: 08/420,856
PRIOR FILING DATE: 1995-04-12
PRIOR APPLICATION NUMBER: 08/346,731
PRIOR FILING DATE: 1994-11-21
NUMBER OF SEQ ID NOS: 12485
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Rosen, Craig A.
APPLICANT: Ruben, Steven M.
TITLE OF INVENTION: Human Genes, Sequences,
FILE REFERENCE: PO-16.2C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Dillon, Patrick
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                                                                                                                                                                                                    NAME/KEY: misc feature
LOCATION: (331)
OTHER INFORMATION: n equals
                                                                              LOCATION: (340)
OTHER INFORMATION: n eo
NAME/KEY: misc feature
                              OTHER INFORMATION: n equals NAME/KEY: misc feature
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OTHER INFORMATION: n equals
                 NAME/KEY: misc
LOCATION: (394)
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OTHER INFORMATION: n equals
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INFORMATION: n equals a, t, g,
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APPLICANT: Mang, Tongtong
APPLICANT: Mang, Tongtong
APPLICANT: Matanabb, Yoshihiro
APPLICANT: Matanabb, Yoshihiro
APPLICANT: Carter, Darrick
APPLICANT: Kalos, Michael D.
APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 20101-15.59
CURRENT APPLICATION NUMBER: US/09/895,828
CURRENT FILING DATE: 2001-06-28
NUMBER OF SEQ ID NOS: 473
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 430
LENGTH: 690
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 11, 662
CURLENGTH: 11, 662
CURLENGTH: MISC_feature
LOCATION: 11, 662
CURLENGTH: MISC_FEATURE
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CURLENGTH: MISC_FEATURE
COMPART INFORMATION: n = A,T,C or G
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Best Local Similarity:
Query Match:
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Alignment Scores: Pred. No.:
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OTHER INFORMATION: n equals a,t,g, o:
NAME/KEY: misc feature
LOCATION: (411)
OTHER INFORMATION: n equals a,t,g, o:
NAME/KEY: misc feature
LOCATION: (415)
OTHER INFORMATION: n equals a,t,g, o:
NAME/KEY: misc feature
LOCATION: (415)
OTHER INFORMATION: n equals a,t,g, o:
NAME/KEY: misc feature
LOCATION: (436)
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LOCATION: (400)
OTHER INFORMATION: n equals a,t,g,
NAME/KEY: misc feature
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283.00
95.31%
93.75%
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RESULT 1 US-10-04 Sequen Sequen Patent GENERA APPLI FILE FILE FILE FILE FILE FRIOR PRIOR FEAT SOFTW	QУ	Qу	Qy Db	Qy Db	Qу	Оy	Ωу	Qу	Qy	Ωy		us-09-	Score: Percent Best Loc Query Mc
12 042-41 042-41 nt No. nt No. LECANT LECANT LE OF LE OF LE OF LE OF TRENT F RENT F RE	263 Ala ::: 585 AGT	243 Iles     : 525 ATTG	223 GlnA ::: 465 GAGA	203 AspV ::: 426 AATT	183 ProPh     384 CCCGA	163 AspL ::: 351 GAG-	143 Leuile. :::::: 291 ATCCTG	123 PheAr     231 TTTAA	103 PheL : 171 TTGG	83 AlaL     111 GCCT	63 Va    51 GI	905-674-	Sim Cal
417-37  417-37  Application US200201230 INFORMATION: NT: Pagano, M. FINVENTION: M. FINVENTION: M. FILLIAGINATION: M. FILLIAGINATE: 20 APPLICATION NUM. ILLIAGING DATE: 20 OF SEQ ID NOS: 20 OF S	263 587	SerLeuLeuG ::: GCTTTTGTCG	laLeuGluS ::: AGATTGGGG	AspValArgIleG ::: AATTTCAAC	eSerCy       CTCCTG	pLeuAsnValT ; G	3 – AS	heArgGluPheF     TTAATAACAACT	euGluLeuA ::   :::  TGGAGGTGG	laLeuArgGluAsnIl    :::        CCTGCAAGGAGAACTA	lLeuValLeum	2 (1-270)	nilarity: Similarity: n:
on US/ 82A1 82A1 82A1 82A1 82A1 970-194 970-19		LeuLeuGlnIlePheGlyIle ::::::: TTTGTCGAGGTTTTGGGAATT	linalaLeuGluSerTrpLeuProArgAsnIleTyrIleValAlaGlyValPheIleA :::	lnLeuLyss	ysValProA   ::: GCATTAAT-	yrPheAsnC	pSerLeuGlnLysA   :::    CAGGATGCAGGCAG	gGluPhePheGluSerAsnIleLysSerTyrArgAspAspIleA 	PheLeuGluLeuAlaValAlaValLeuAlaPheLeuPheGlnAspTrpVal 	AsnIleCysLeuLeuAsnPhePheC           :::       AACTATTGTCTTATGATCACGTTTG	letValGlyV         CAGTGGGTG	s-09-	282.00 50.25% 28.86% 19.46%
7 NTIF AND 042,		lyIlePheL      GAATTGTCT	roArgAsnI :::   : GGAAAAATG	erLysTrpAs ::	pProAl	ysSerGlyA	sAlaAsnGlnCys :::    AGATTTTAAGTGC	snIleLysS :::::: AGATGGAGA	alLeuAlaP :: TTGCTGGCT	euLeuAsnP   ::: TTATGATCA	alValMetP    :::   CTTCCTCT	895-828-4	Matc Cons Mism Inde Gaps
Y COMPOUNDS USEF DIFFERENTIATIVE 417		yllePheLeuAlaArgThrLeuIleSerAspIle 	AsnIleTyrIleValAlaGlyValPheIle 	pGluSer :::::: GAAGGCG	aGlnLysValValAsnThrG     GTTACTGTGG	lyAlaSerTyrSer     AAAATCCCTTCC	lnLysAlaAsnGlnCysCysGlyAlaTyrGlyProGl 	erTyrArgAs ::    ATTACCCGA <i>l</i>	heLeuPheG] :::::   :: ATGTGTTTAC	AsnPhePheCysGl     ATCACGTTTGCCAT	heThrLeuG]    :::  CCTGGTGGG	30 (1-690)	Matches: Conservative Mismatches: Indels: Gaps:
USEF		gThrLeuIleSer    ::: CTGCCTCGTGAAG	alAlaGlyVa        AGCTGCAGC	IlePheThrLysGlyCy      ATCCATAAGGAGGGCTG	alasnThrGl     TACTGTGGG	erArgGluLys     CATGTCGAAG	LaTyrGlyPr     TGCTAACT#	gAspAspIleAspLeuG ::: GAAAAACAACCACACTG	lnAspTrpVa ::       SAGATAAGGT	ysGlyThrIleValLeuIleP :::       CCATCTTTCTGTCTCTTATCA	LyPheAlaG1		58 78 22
JI FOR THE T		G1 AG	G -	heThrLysGlyCysIle :::     ::: ATAAGGAGGGCTGTGTG	lValAsnThrGlnCysGlyTyr      GTTACTGTGGGCTGTGGGATT	CysGlyVa        AACCGAGT	uAspTr       AGATTG	lnAs :: CTTC	ArgAspAr ATGTCAGA	lleuIlePhe       !TCTTATCATG	ValLeuMetValGlyValValMetPheThrLeuGlyPheAlaGlyCysValGly 		
REATMEN		u 262 A 584	a 242 A 524	e 222 : G 464	r 202 T 425	1 182   C 383	p 162     350	n 142 : G 290	g 122 G 230	e 102 G 170	y 82     110		

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US-09-729-674-89; Sequence 89, Application US/09729674; Patent No. US20010039335A1
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      Alignment Scores: Pred. No.:
                                                  ; ORGANISM: Homo US-09-729-674-89
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Best Local Similarity:
Query Match:
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                                                                              SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 89
LENGTH: 1797
TYPE: DNA
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APPLICANT:
                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/729,674
CURRENT FILING DATE: 2000-12-04
PRIOR APPLICATION NUMBER: 09/539,330
PRIOR FILING DATE: 2000-03-30
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APPLICANT: Genetics Institute, Inc.
TITLE OF INVENTION: SECRETED PROTEINS AND
FILE REFERENCE: 6055-64X
                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Jacobs, Kenneth APPLICANT: McCoy, John M.
                                                                                                                                             NUMBER OF SEQ ID NOS: 283
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION:
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Clark, Hilary
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Steininger II, Robert
Spaulding, Vikki
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LaVallie, Edward R.
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Treacy, Maurice
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APPLICANT: Tang, Y. 7
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Yue, Henry
Corley, Neil C.
Guegler, Karl J.
Kaser, Matthew R.
                                                               Hillman, Jennifer
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; OTHER INFORMATION: Incyte
US-09-823-356-32
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Query Match:
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SOFTWARE: PERL Program
SEQ ID NO 32
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CURRENT FILLING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 09/039,307
PRIOR FILLING DATE: 1998 March 13
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ORGANISM: Homo sapiens
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                                ValArgIleGlnLeuLysSerLysTrpAspGluSerIlePheThrLysGlyCysIleGln 223
                                                                       GAAGATTGTACTCCACAGAGAGATGCAGACAAAGTAAACAAT
                                                                                                    -----CysValProAsp---ProAlaGlnLysValValAsnThrGlnCysGlyTyrAsp
                                                                                                                                           ---ACAGATACTAATTATTACTCAGAAAAA----GGATTTCCTAAGAGTTGCTGTAAACTT
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SEQ ID NO 392
LENGTH: 1545
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CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05882
PRIOR FILING DATE: 2000-03-08
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OTHER INFORMATION: n equals
NAME/KEY: misc_feature
LOCATION: (25)
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NAME/KEY: misc_feature
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                            82 GlyAlaLeuArgGluAsnIleCysLeuLeuAsnPhePheCysGlyThrIleValLeuIle 101
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GCCACCTTCAAGGAGCGTCGGAACCTGCTGCGCCCTGTACTTCATCCTGCTCCTCATCATC
                                                                                                                                                           GluLysGly---ValLeuSerAspLeuThrLysValThrArgMetHisGlyIleAspPro
                                                                                                                                                                                                               AsnIleIlePheTrpLeuAlaGlyValValPheLeuGlyValGlyLeuTrpAlaTrpSer 42
                                                                                                                                                                                                                                                          TTCAACGAGAAGAAGACAACATGTGGCACCGTTTGCCTCAAGTACCTGCTGTTTACCTAC
                                                                                                                                                                                                                                                                              TyrSerAsnAlaLysValSerCys-----TrpTyrLysTyrLeuLeuPheSerTyr
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                                                                                            ValValLeuValLeuMetValGlyValValMetPheThrLeuGlyPheAlaGlyCysVal 81
                                                                                                                             CTCAAGAGTGACTACATCAGCCTGCTGGCCTCAGGCACCTAC-----CTGGCCACA 268
                                                                                                                                                                                           AATTGCTGCTTCTGGCTGGCTGGCCTGTCATGGCAGTGGGCATCTGGACGCTGGCC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           102 PhePheLeuGluLeuAlaValAlaValLeuAlaPheLeuPheGlnAspTrpValArgAsp 121
                                                                                                                     249 PheGlyIlePheLeuAlaArgThrLeuIleSerAspIleGluAlaValLysAlaGlyHis 268
                                                                                                                                                                                               209 LysSerLysTrpAspGluSerIlePheThrLysGlyCysIleGlnAlaLeuGluSerTrp 228
                                                                                                                                                                                                                                                              197 AsnThrGlnCysGly---------TyrAspValArgIleGlnLeu 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             389 TTTCTGCTGGAGATCATCGCTGGTATCCTCGCCTACGCCTACTACCAGCAGCTGAACACG 448
                                                                                               TITGGCATGATCTTCACGTGCTGCCTG-----TACAGGAGTCTCAAGCTGGAGCAC 844
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